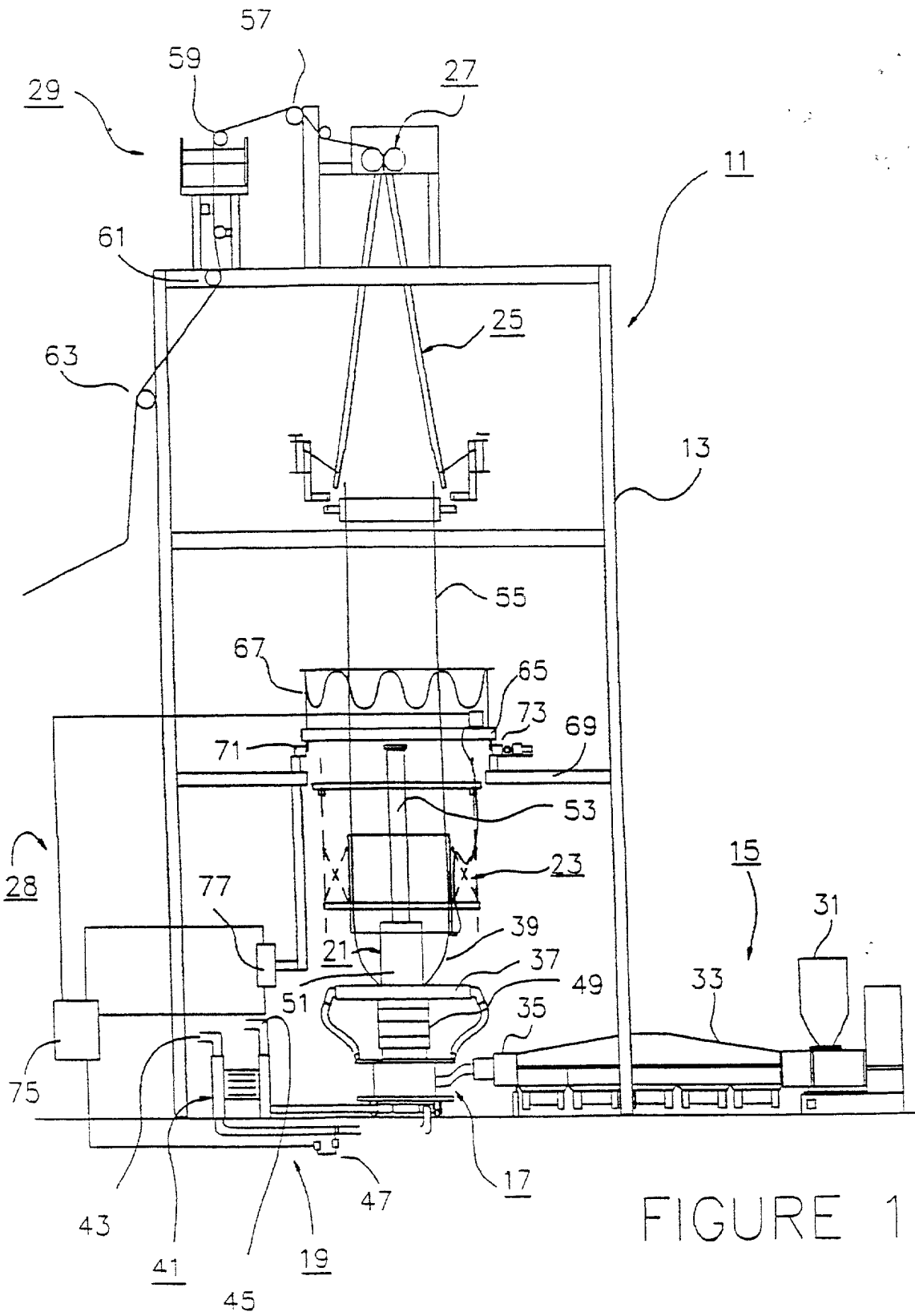


#3



0929084-031601

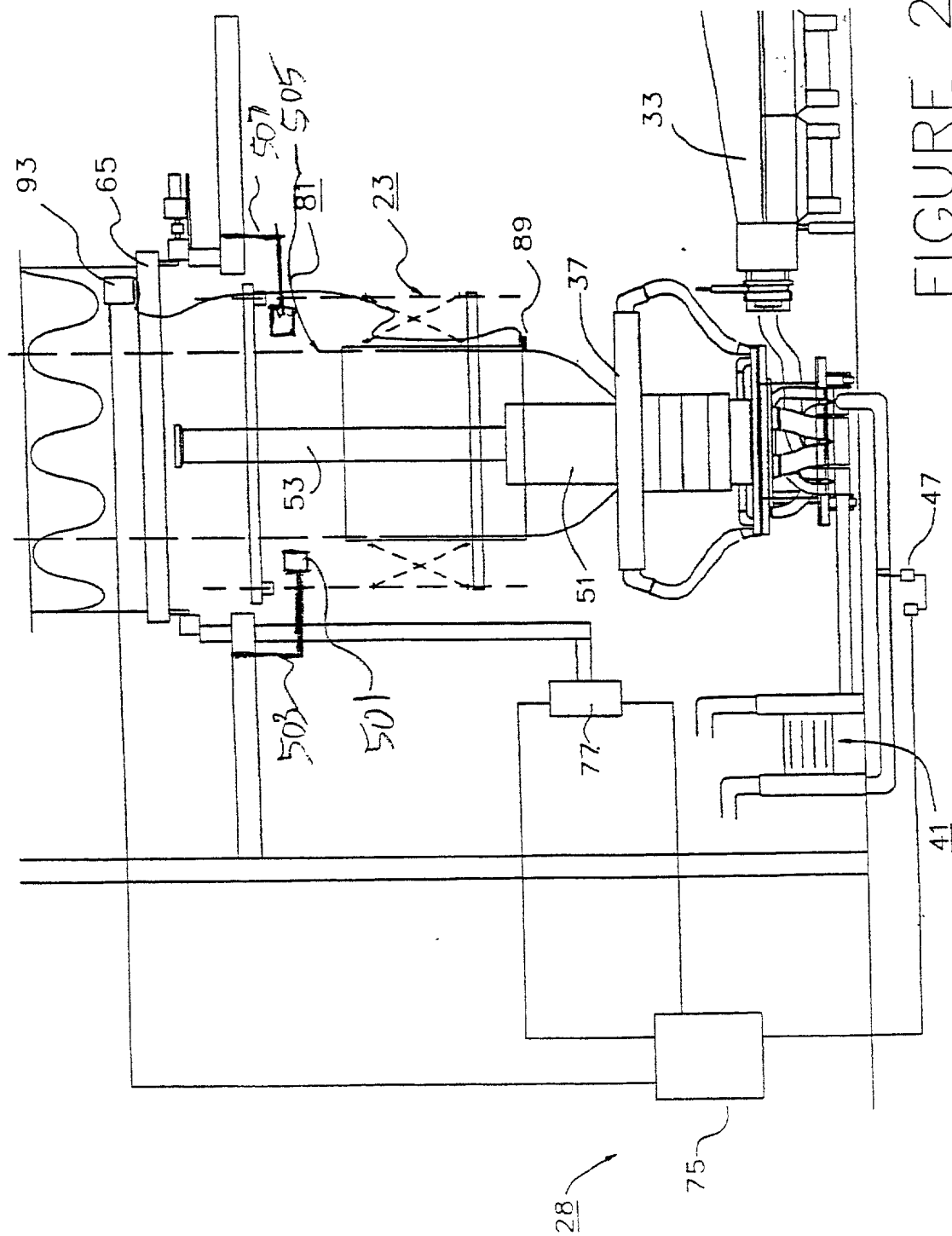


FIGURE 2

FIG. 3

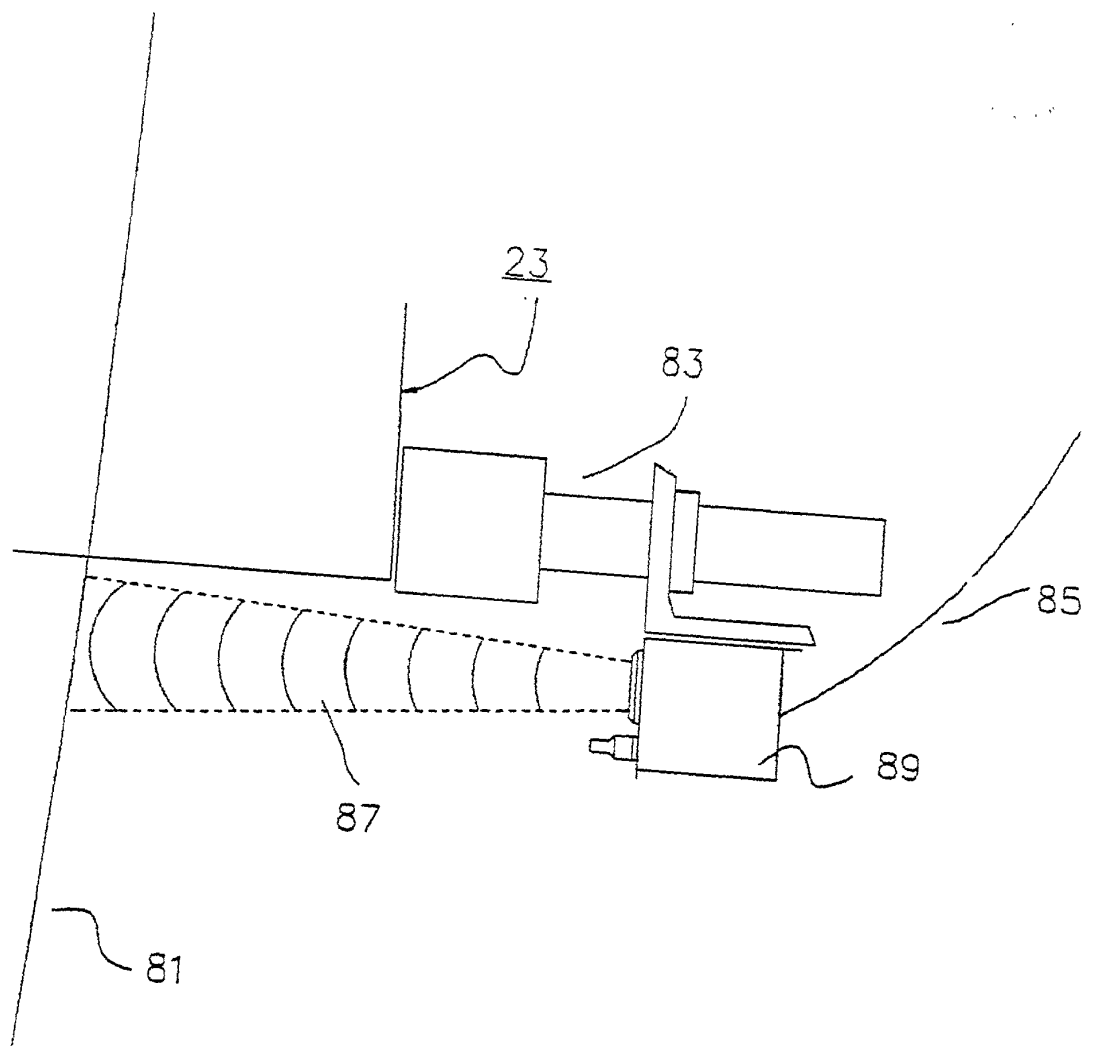


FIGURE 3

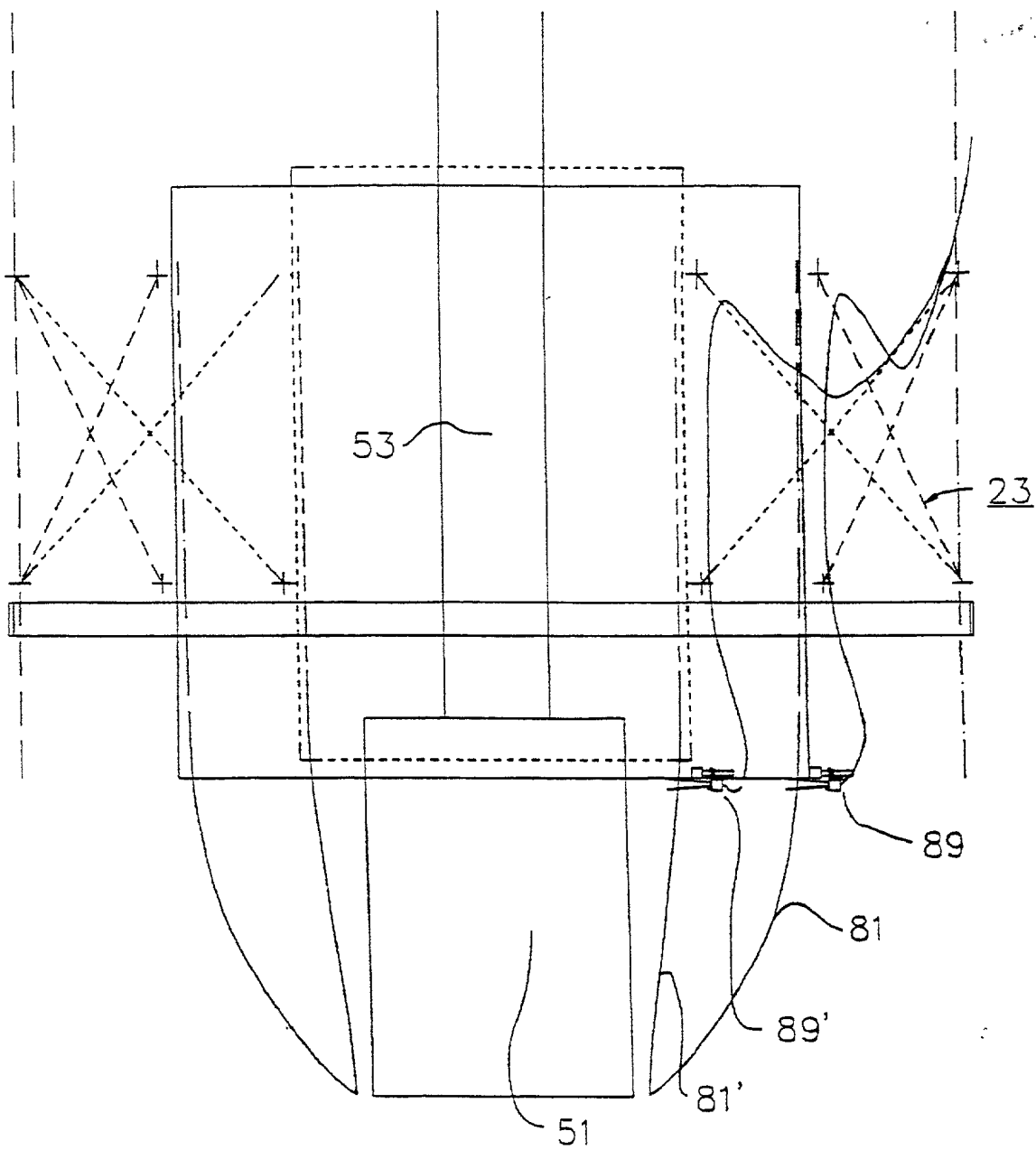


FIGURE 4

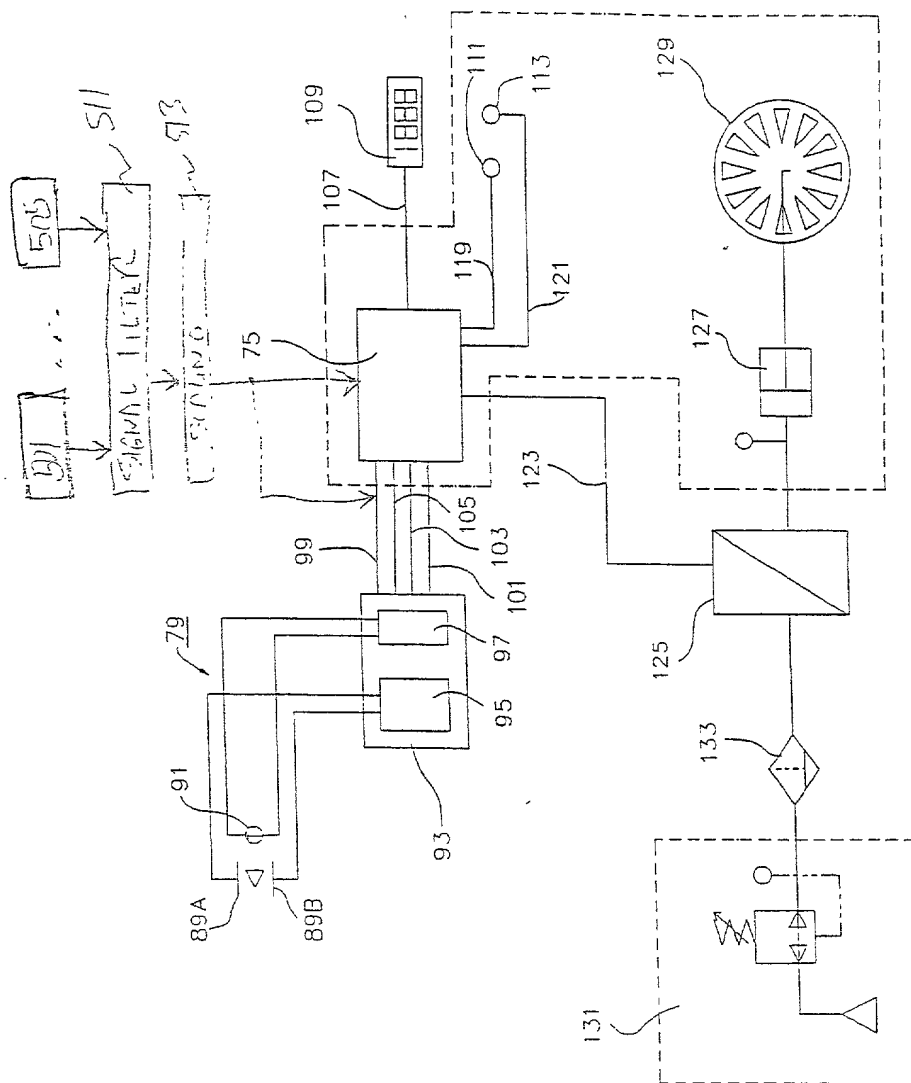


FIGURE 5

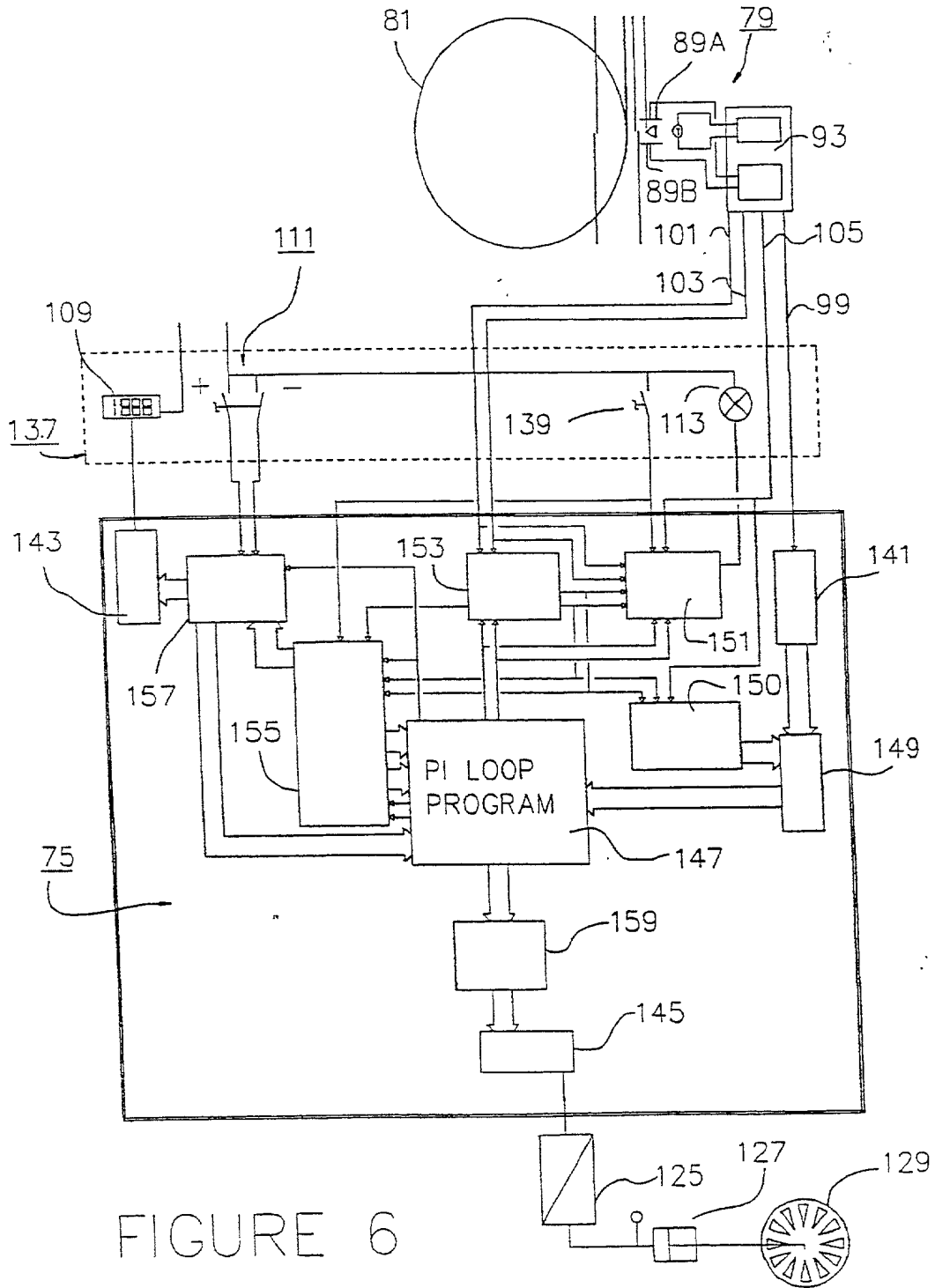


FIGURE 6

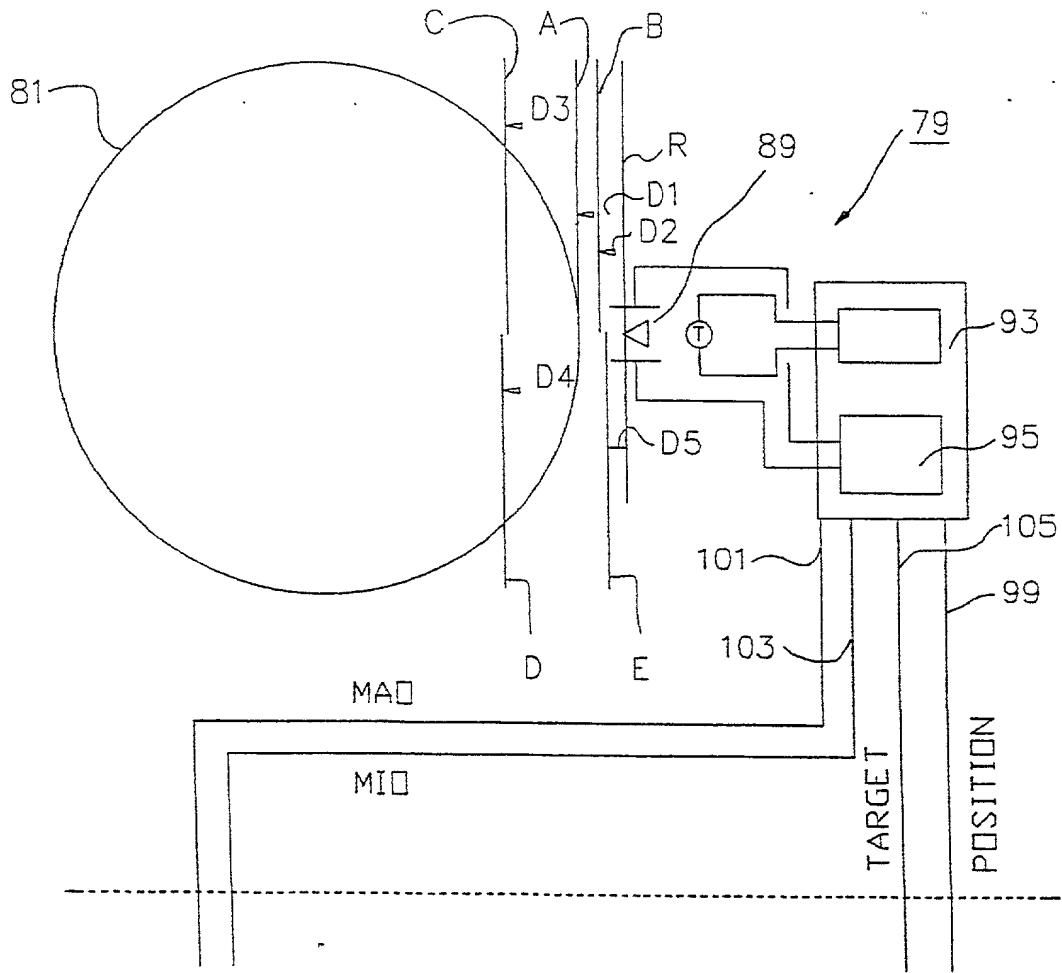


FIGURE 7A

FIGURE 7B

[illegible]

FIGURE 8A

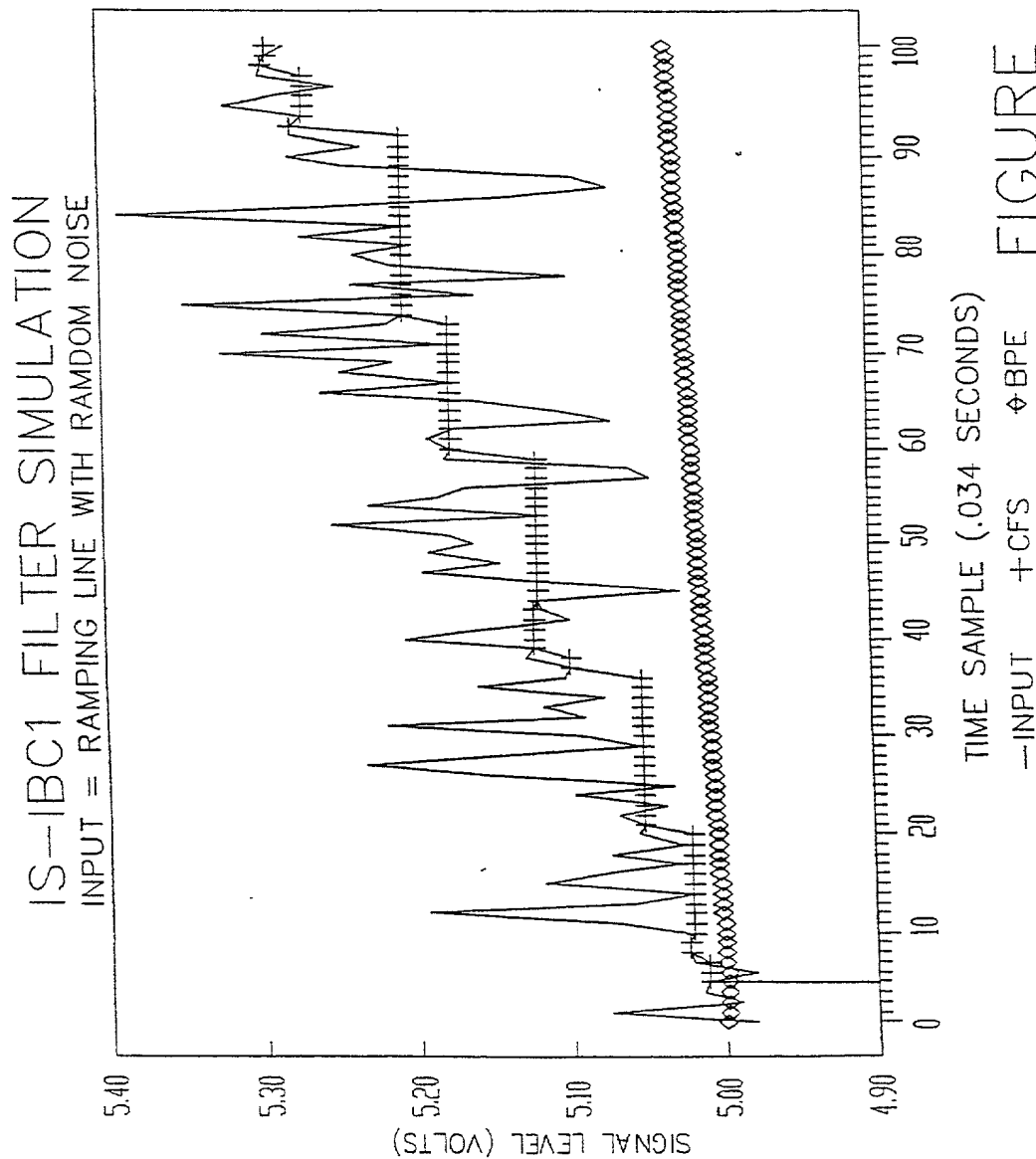


FIGURE 8B

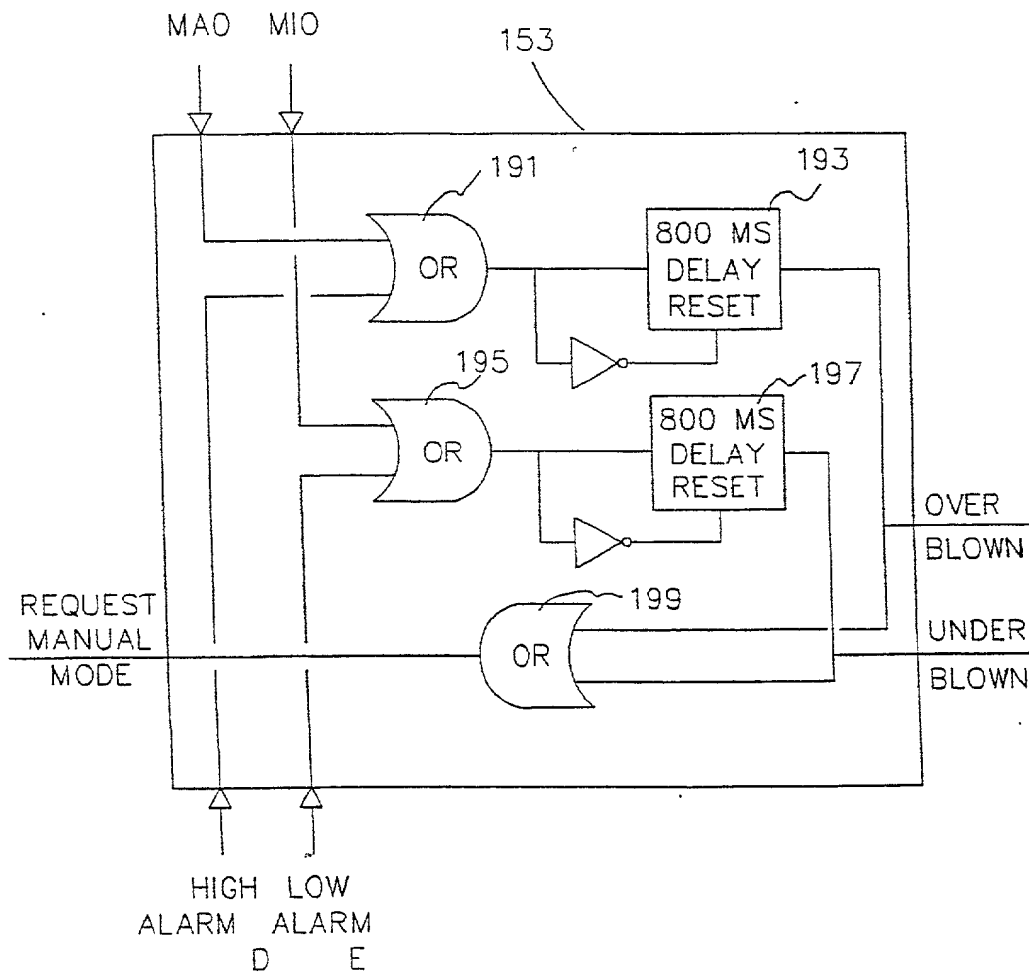


FIGURE 9

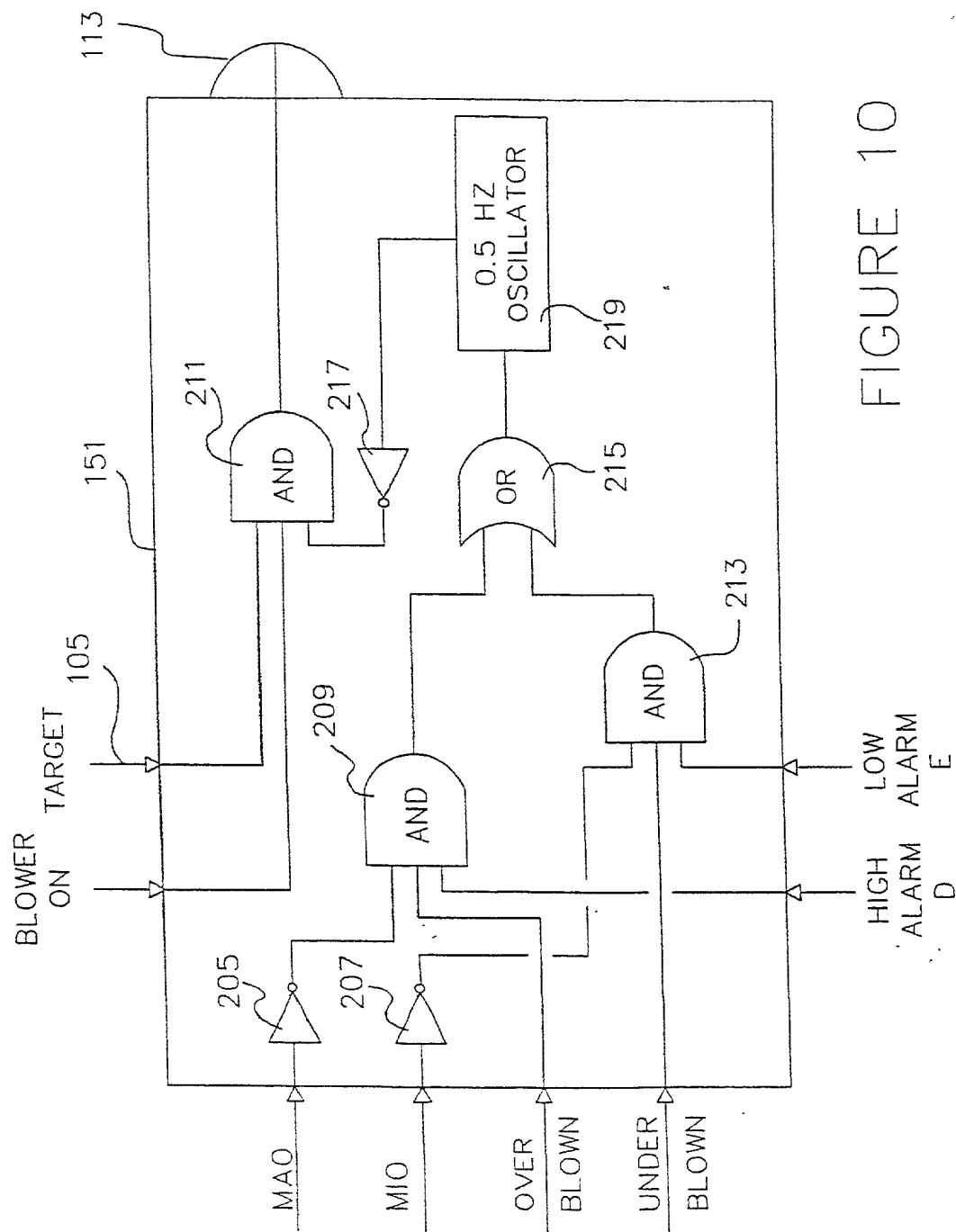


FIGURE 10

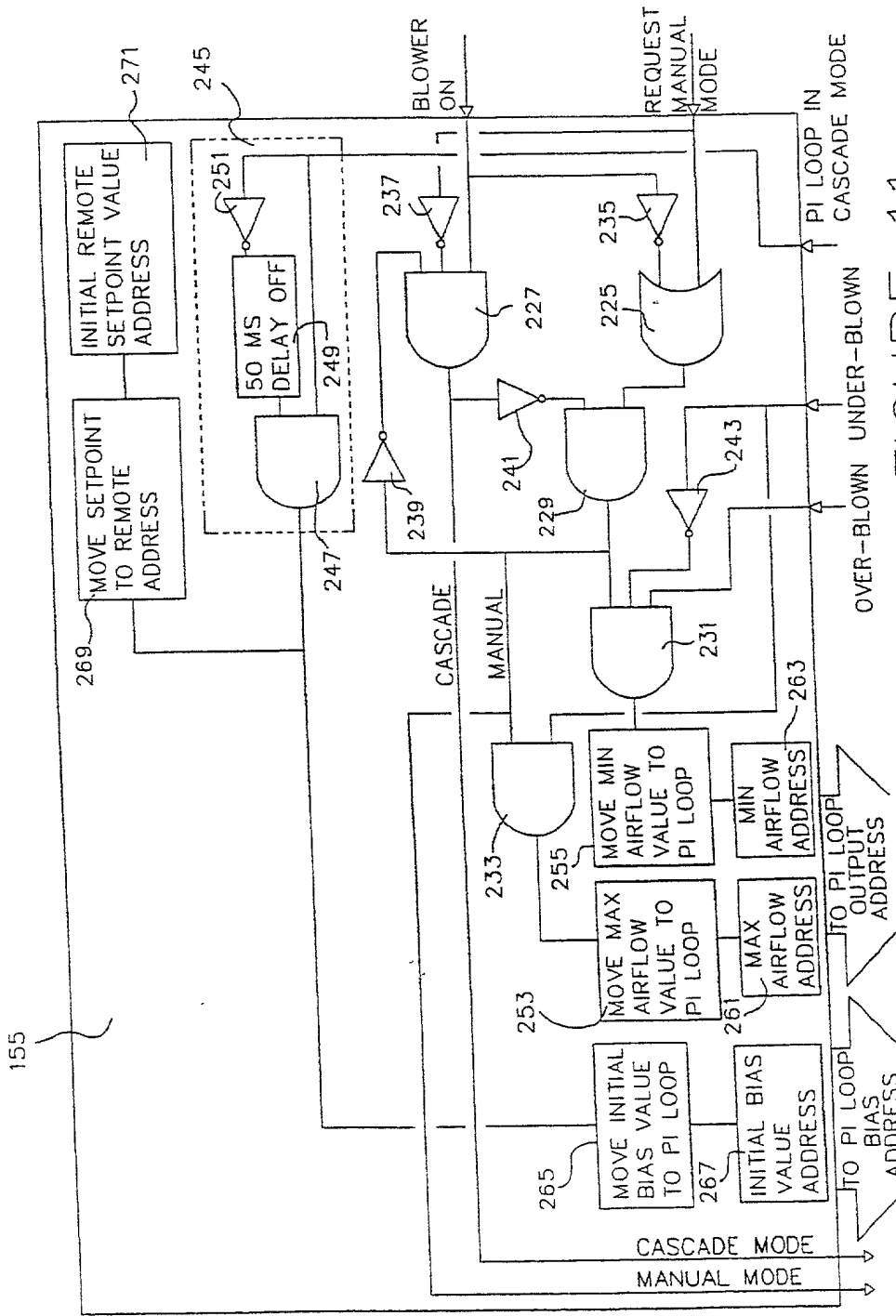


FIGURE 11

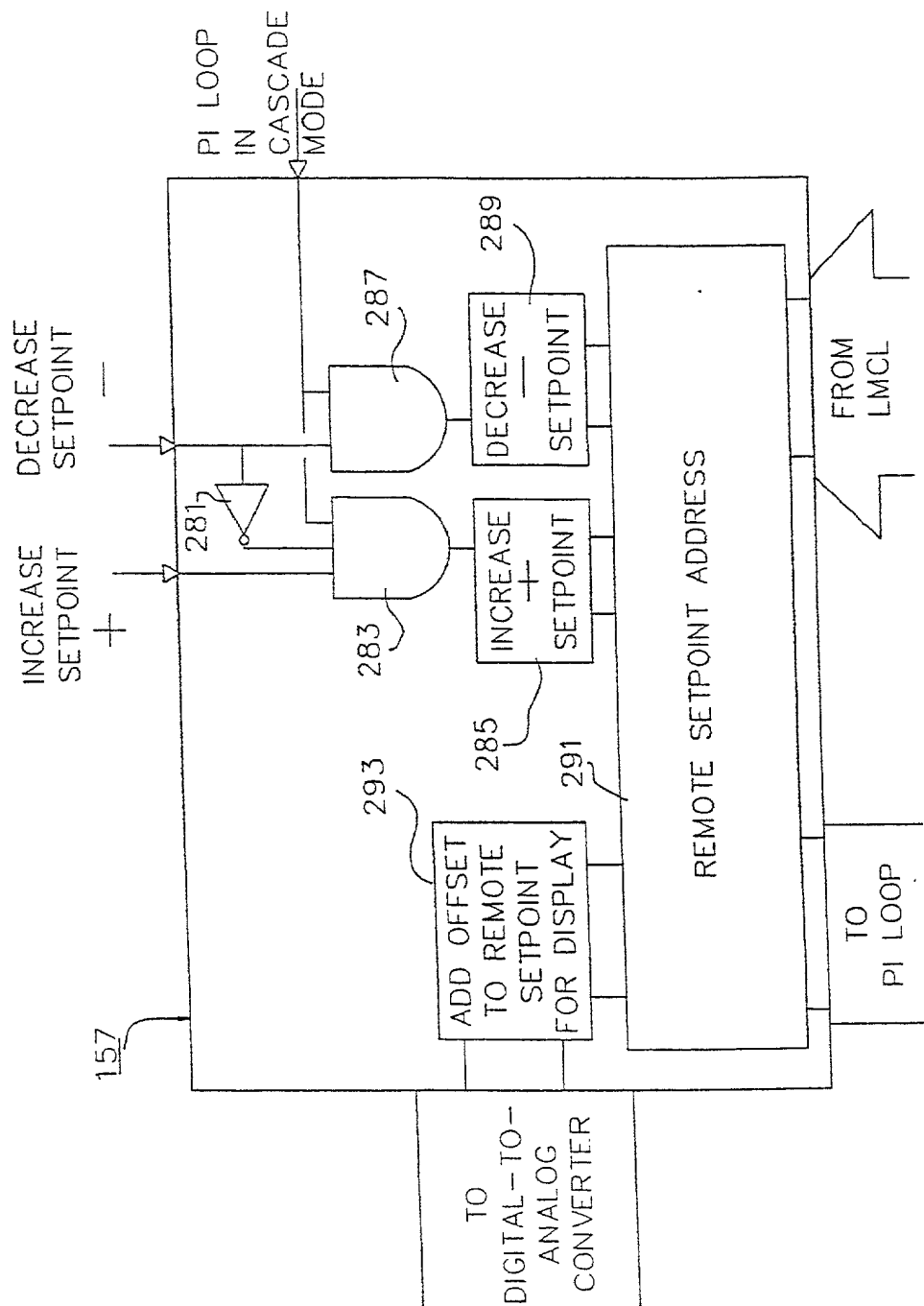


FIGURE 12

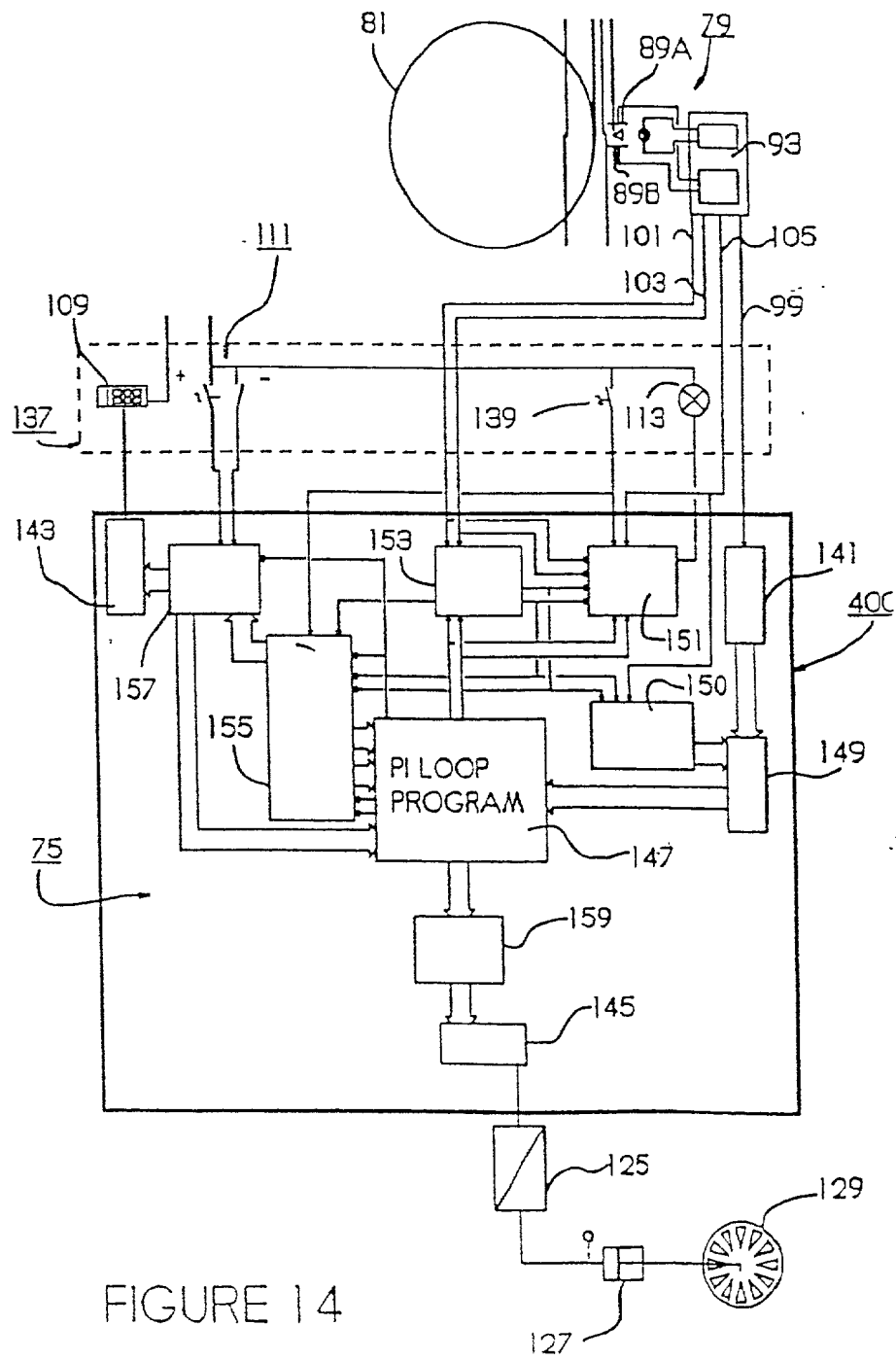


FIGURE 14

FIGURE 15

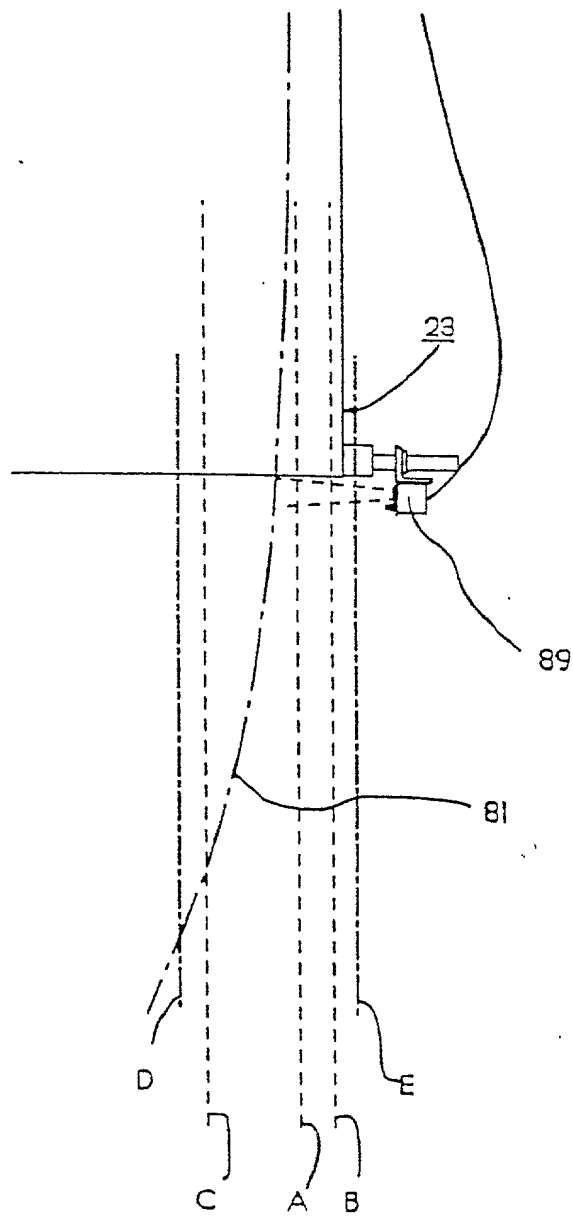
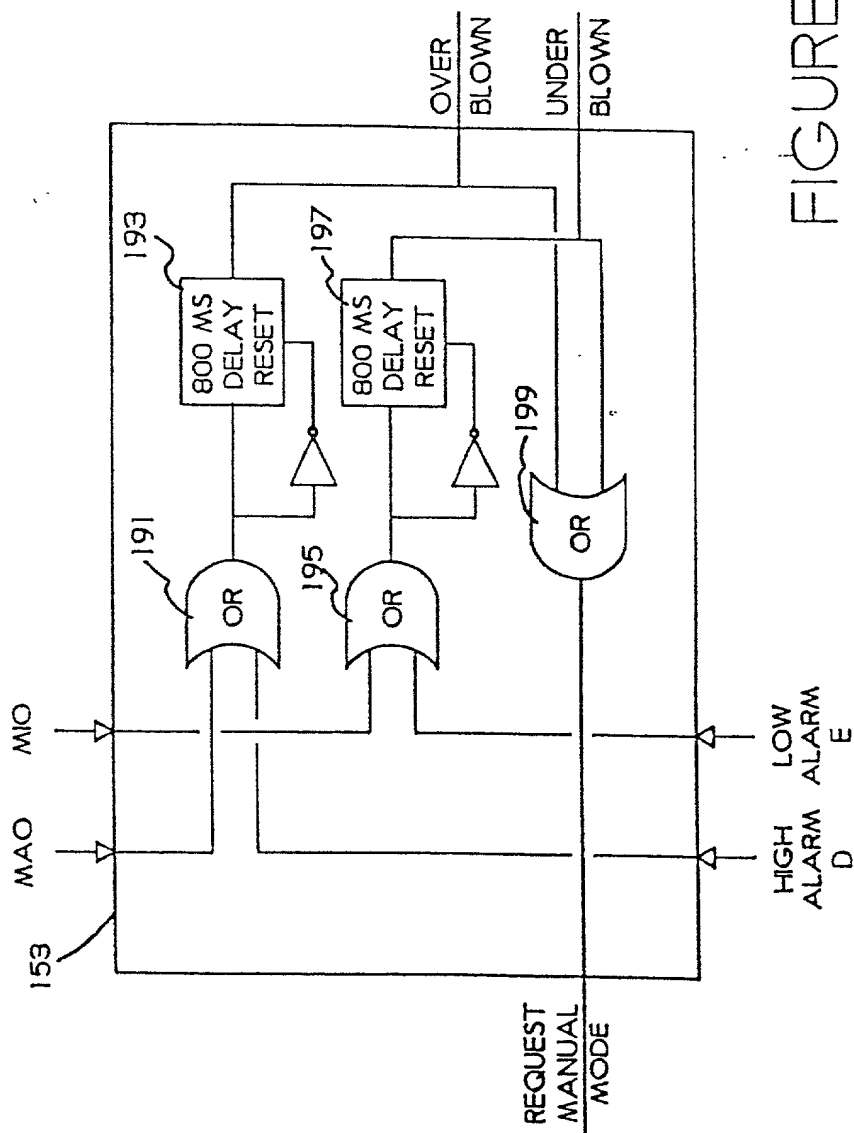


FIGURE 16



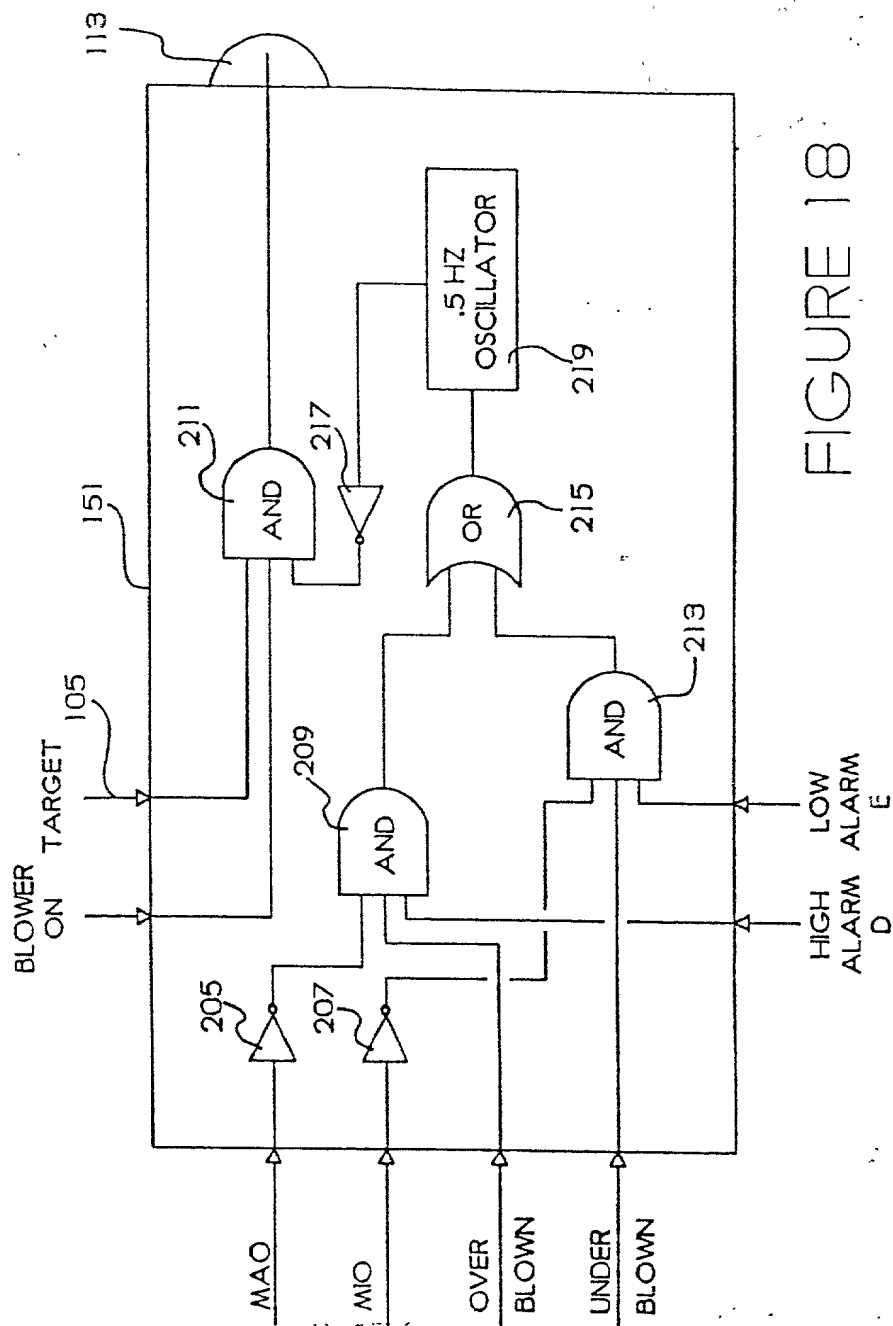
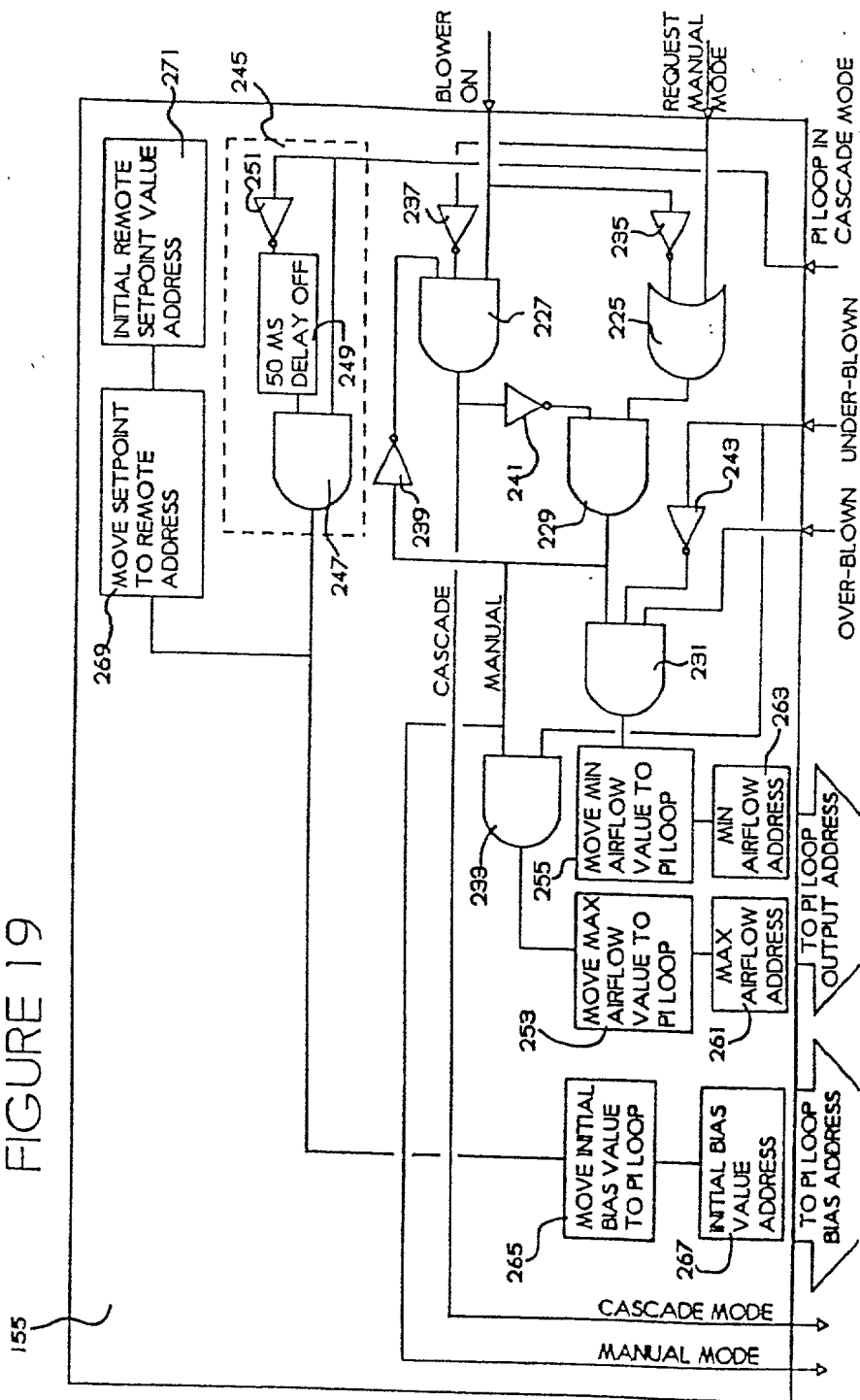


FIGURE 18

FIGURE 19



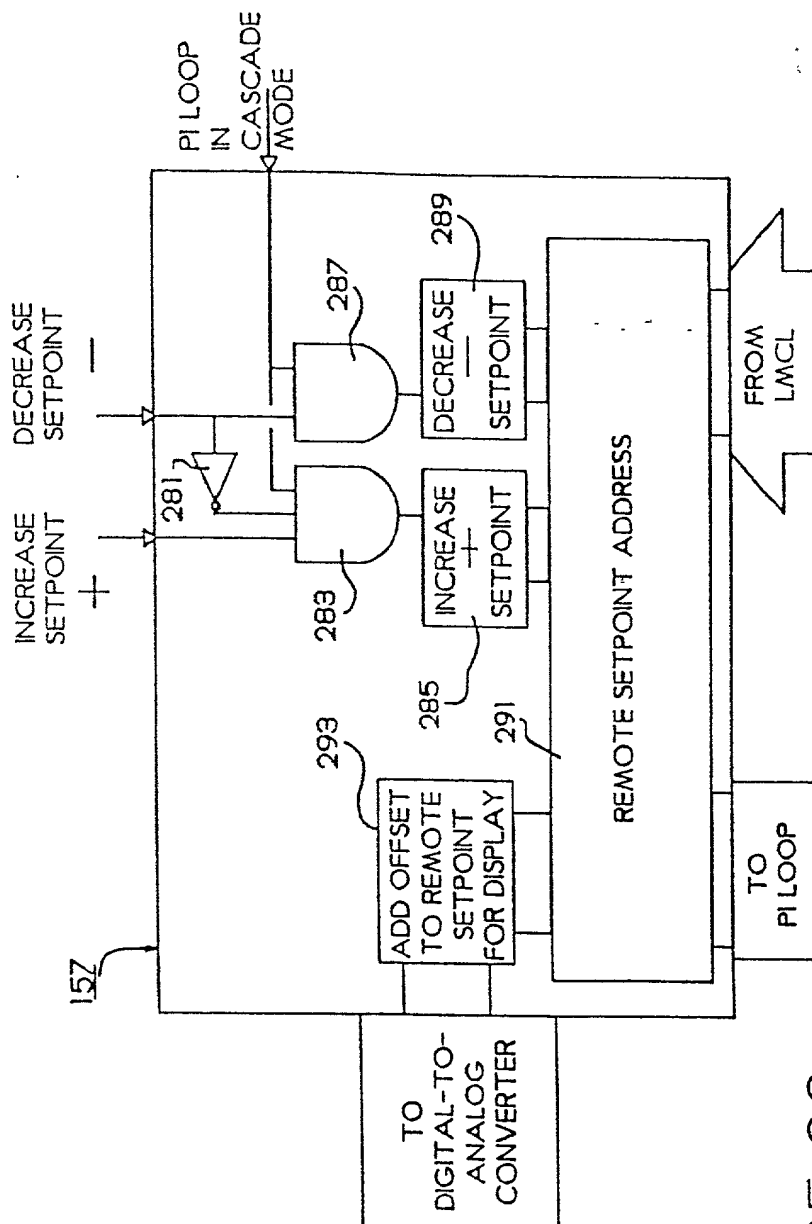


FIGURE 20

0923034.031601

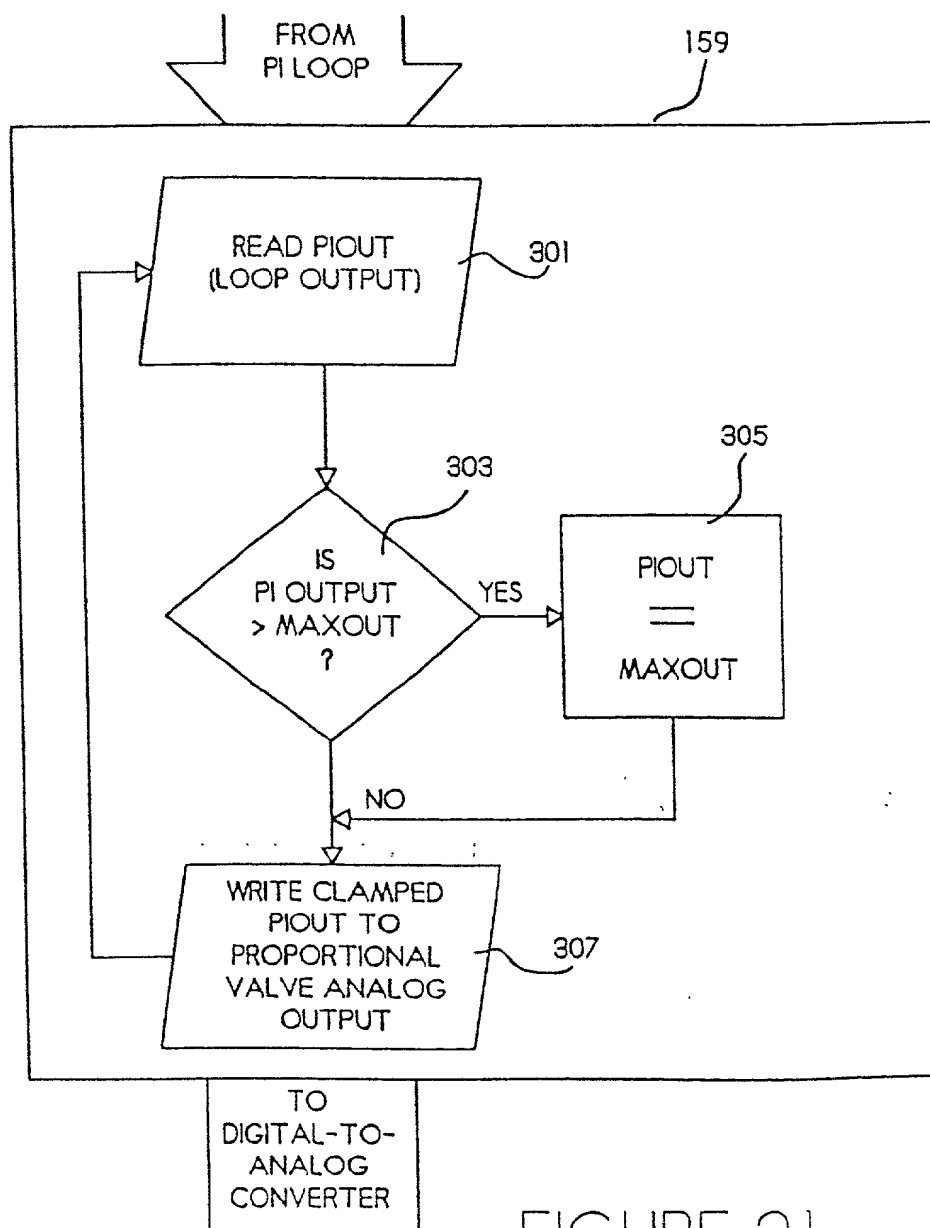
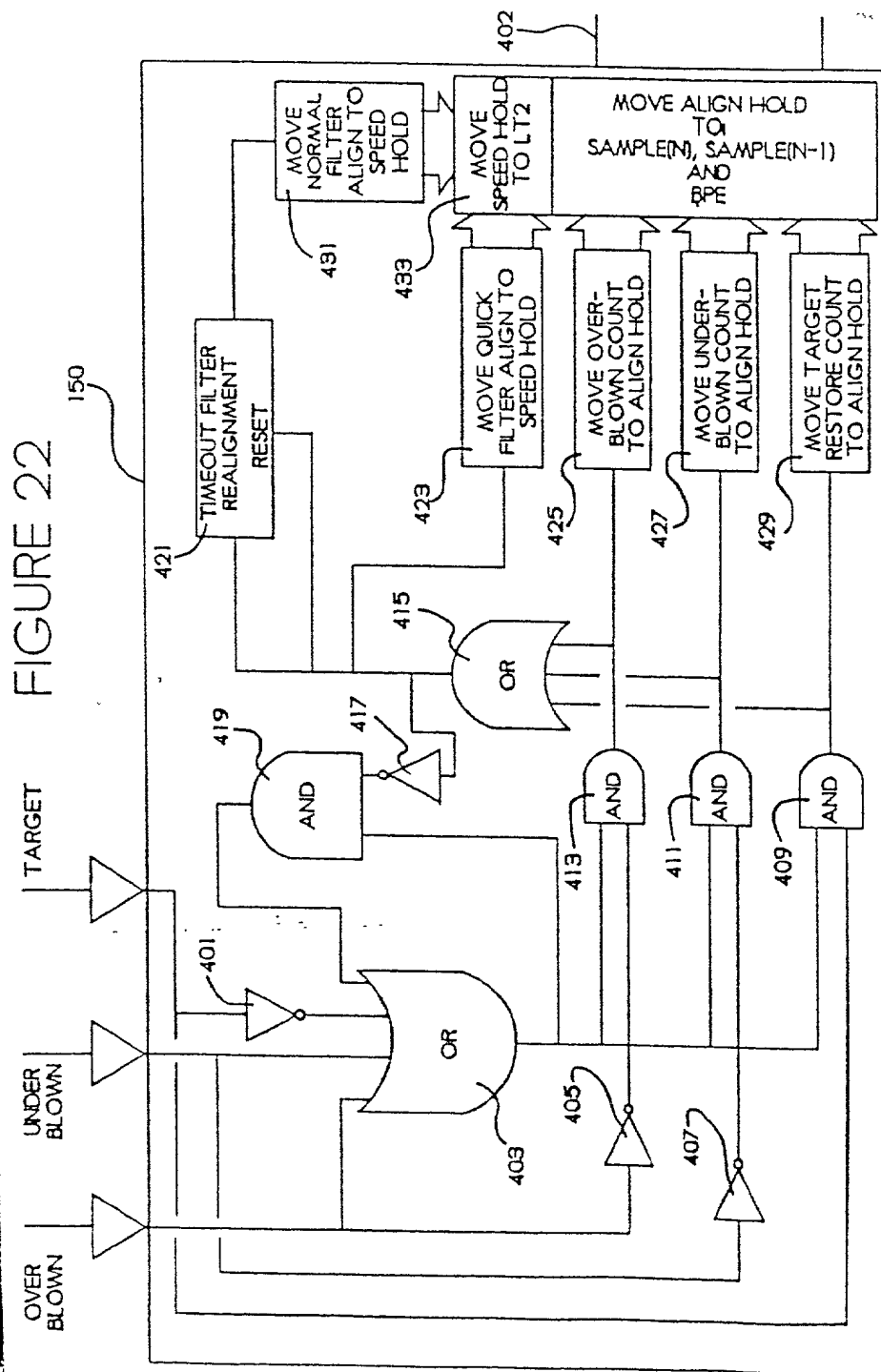
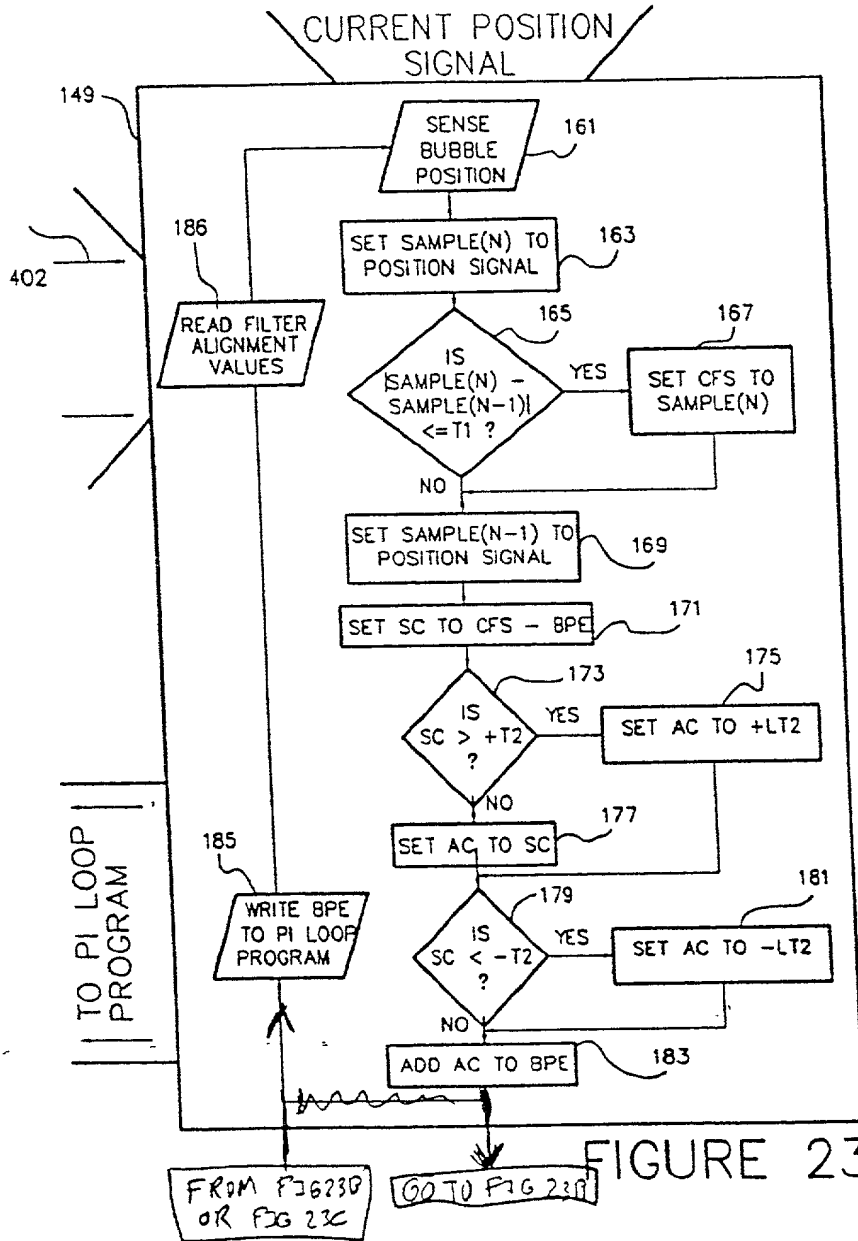


FIGURE 21





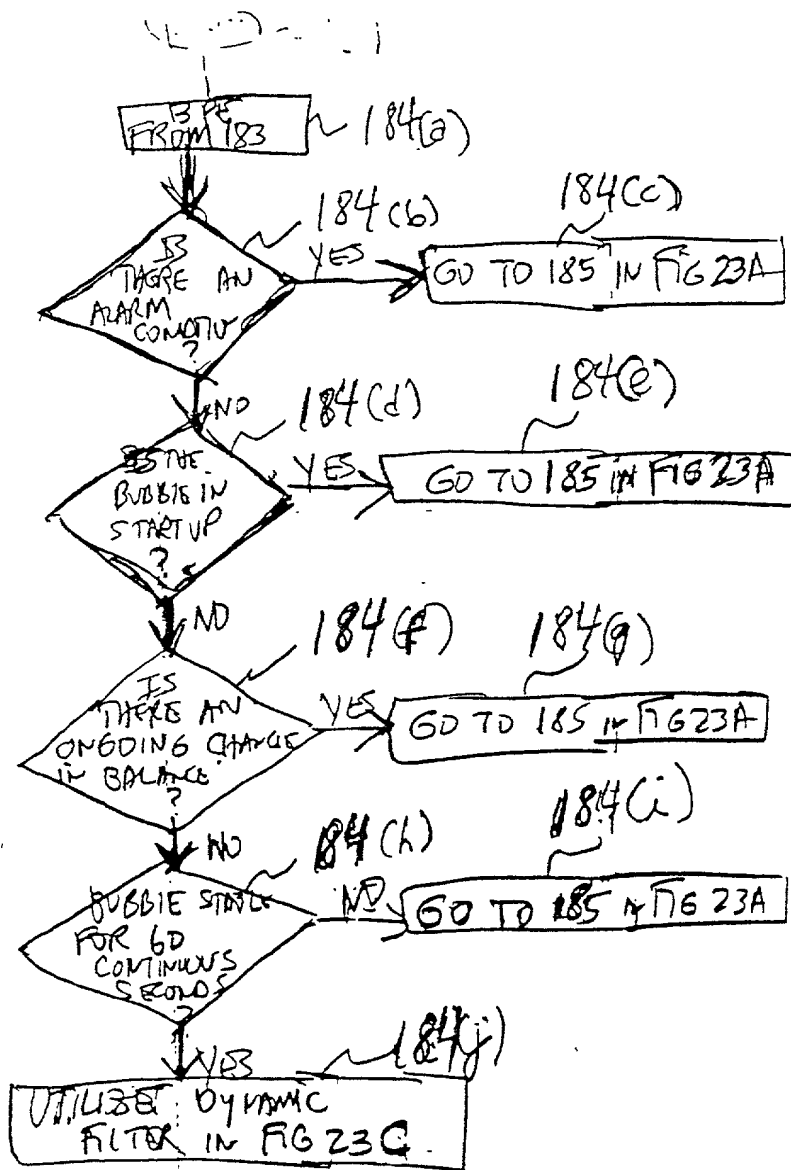
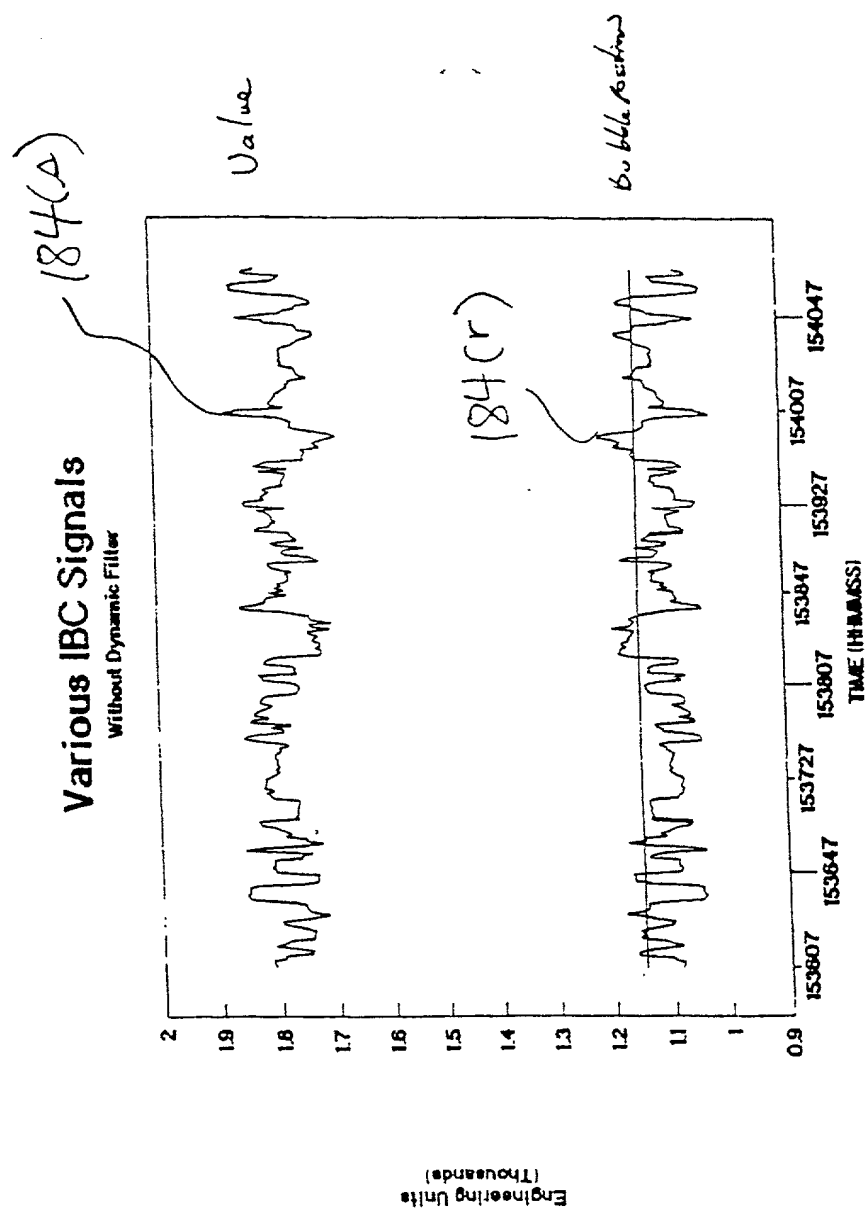


FIGURE 23B



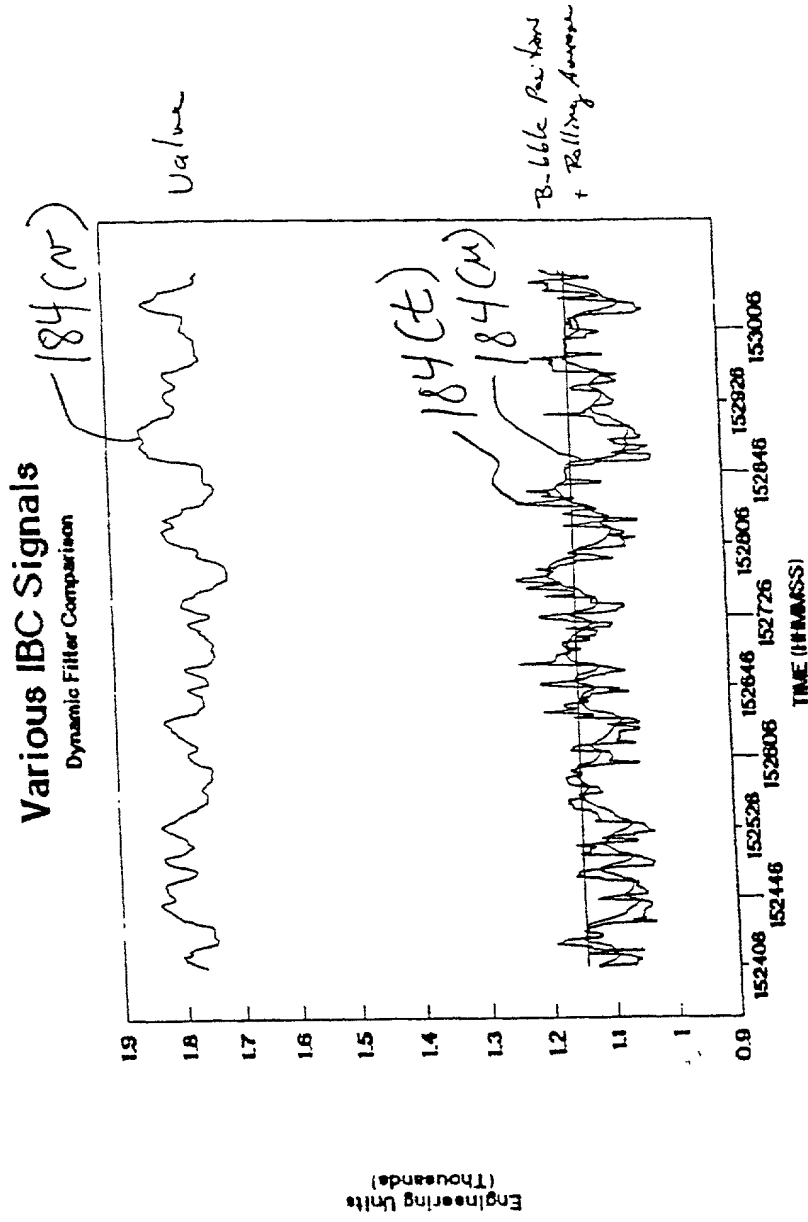


Figure 23E

Frequency Distribution Comparison
Dynamic Filter Vs. BPE

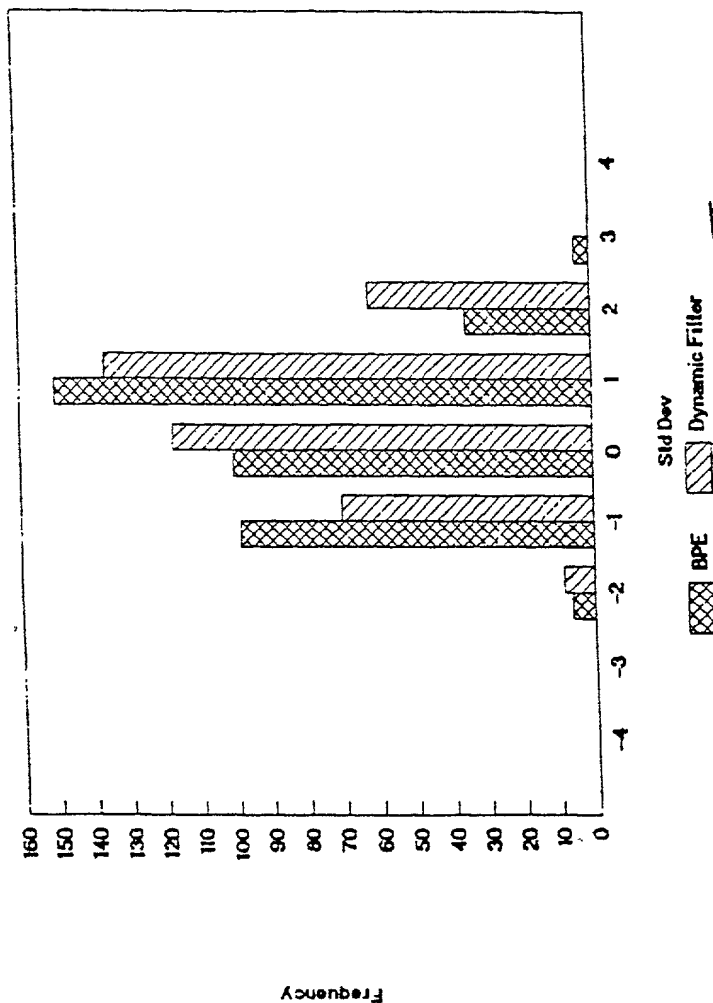


FIGURE 23F

Various IBC Signals Start-Up With Dynamic Filter

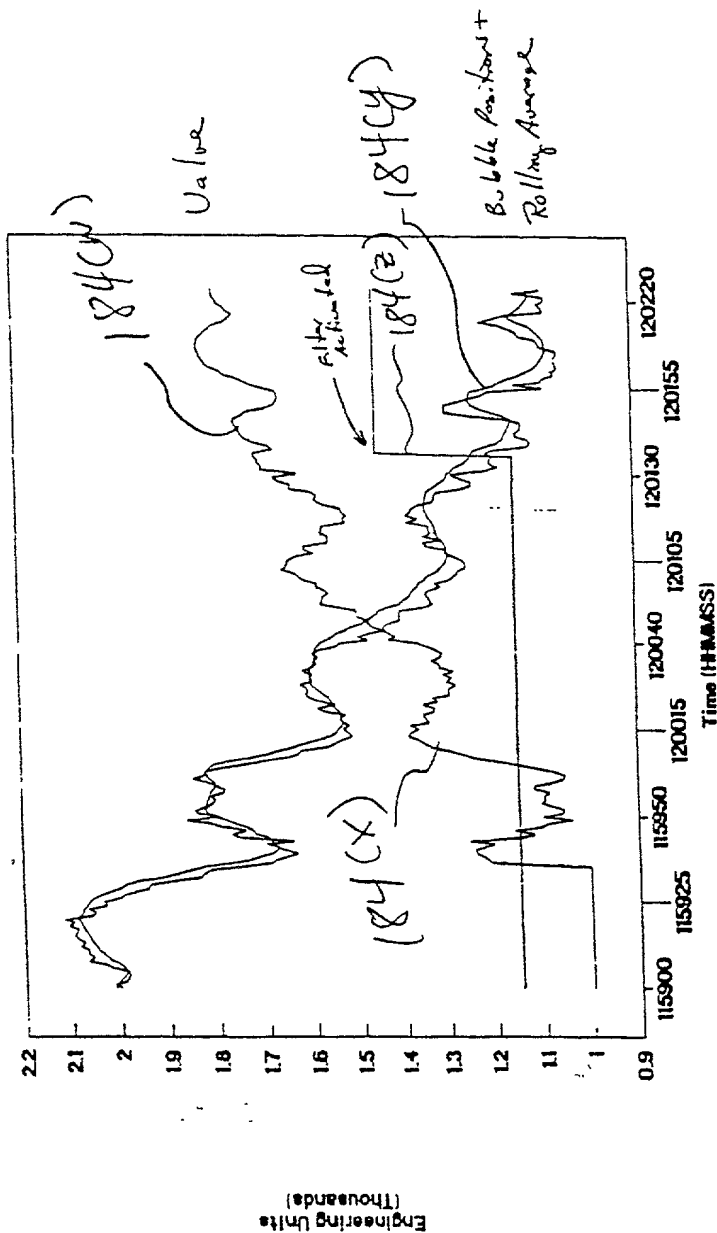


FIG 23G

IS-IBC1 FILTER SIMULATION

INPUT - RAMPING LINE WITH RANDOM NOISE

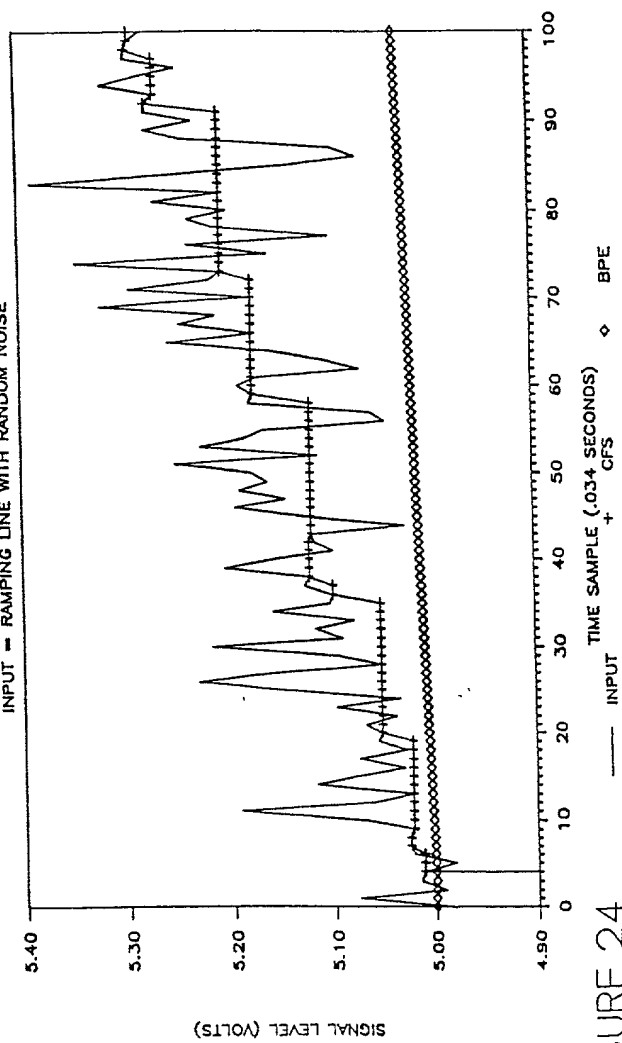


FIGURE 24

FIGURE 25A

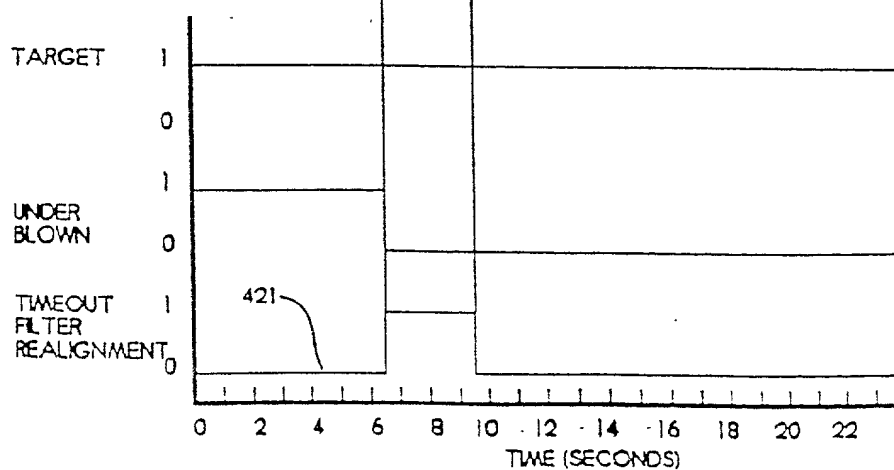
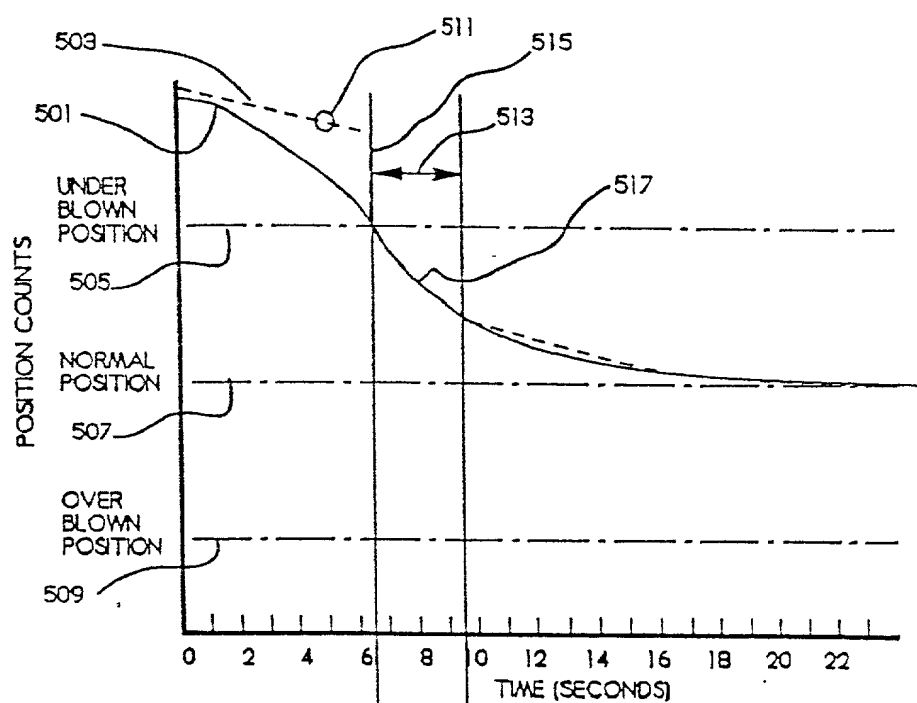


FIGURE 25B

FIGURE 26A

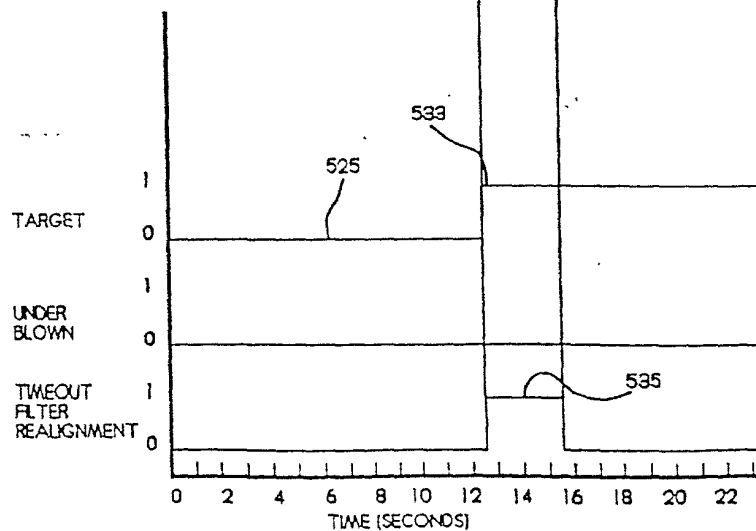
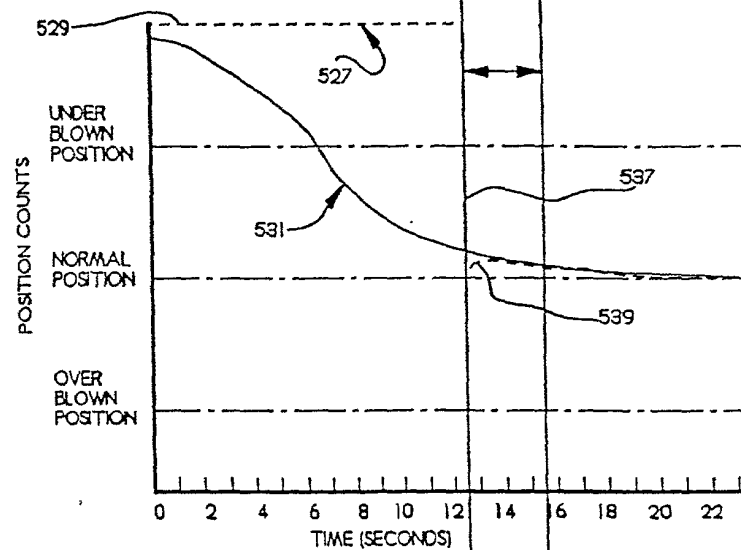


FIGURE 26B

109120"43062860

FIGURE 27A

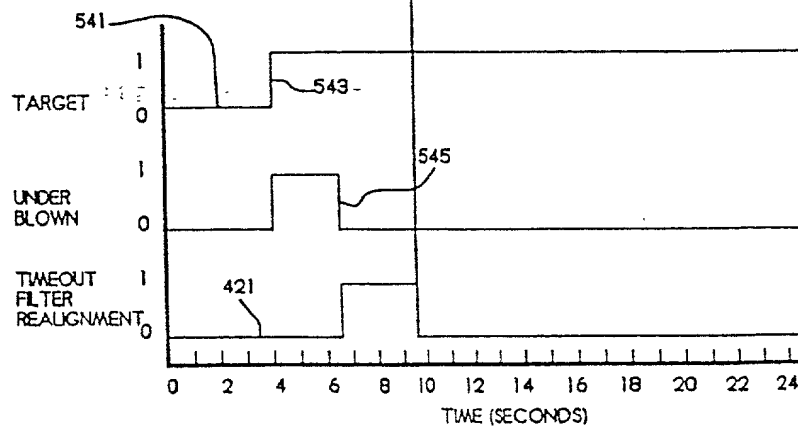
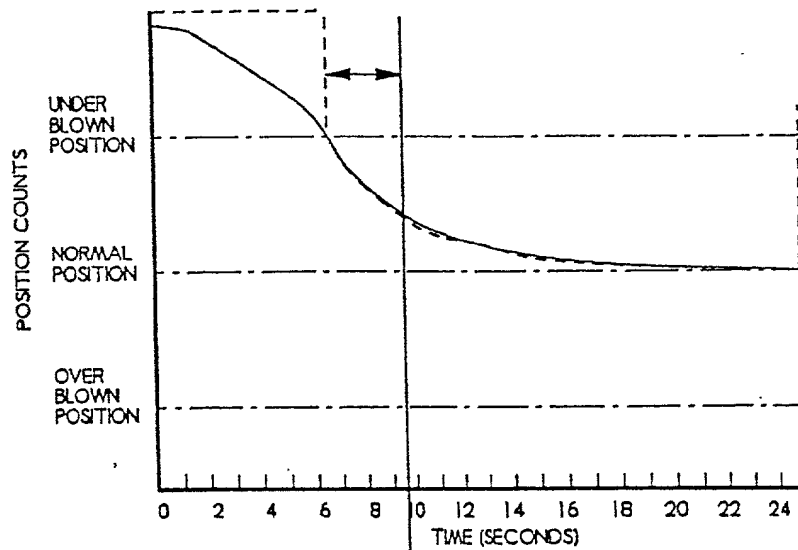


FIGURE 27B

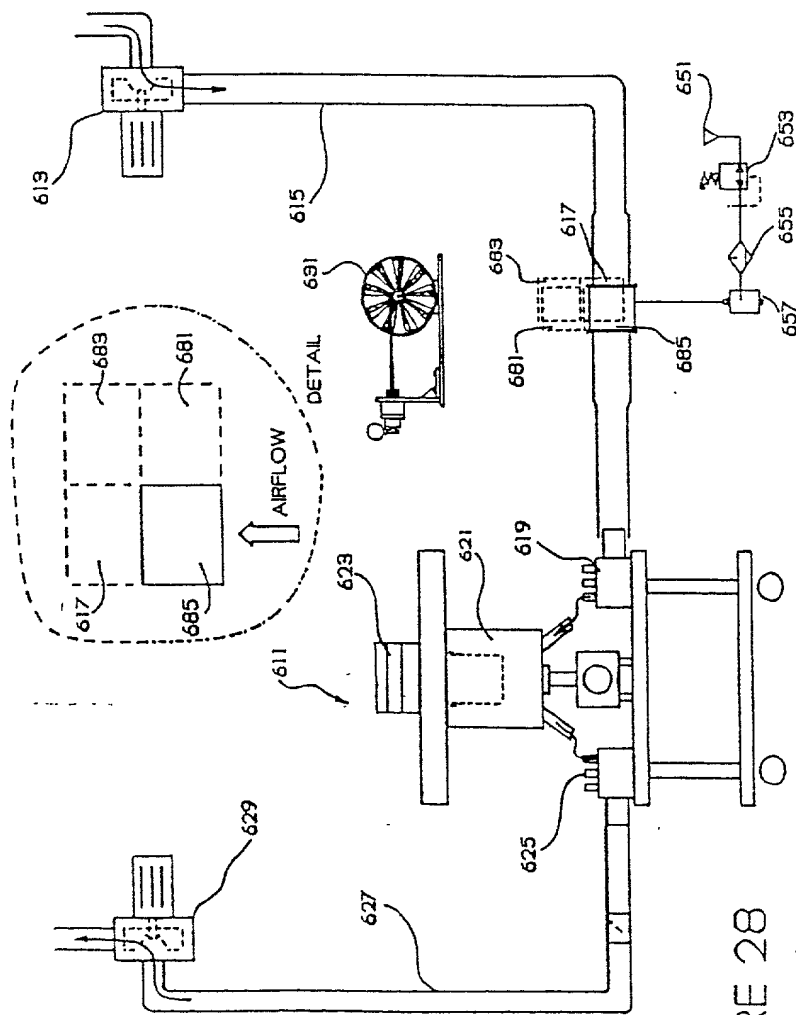


FIGURE 28

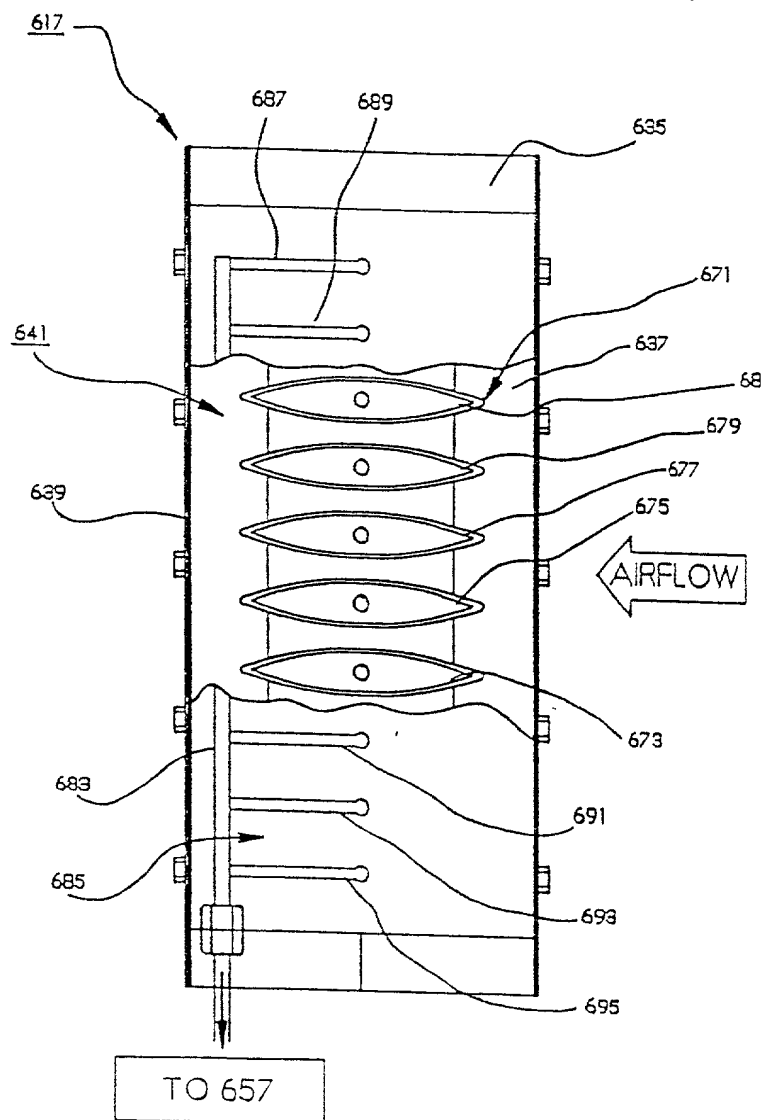


FIGURE 29

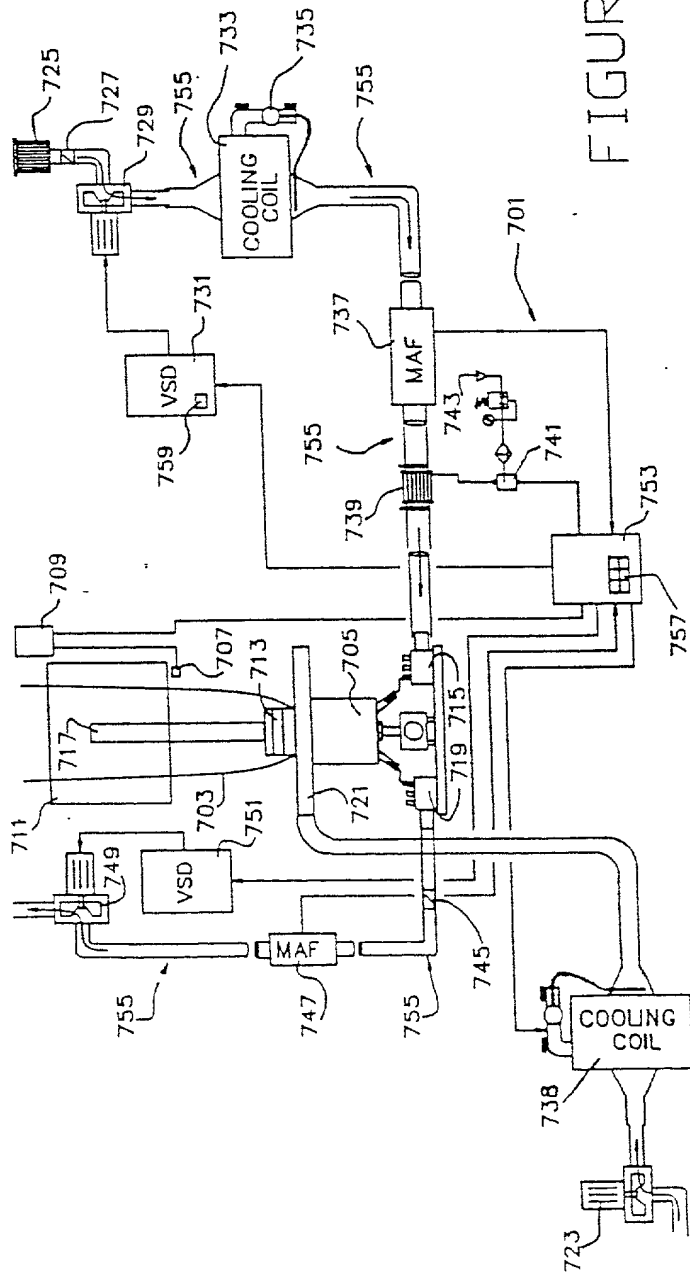


FIGURE 30

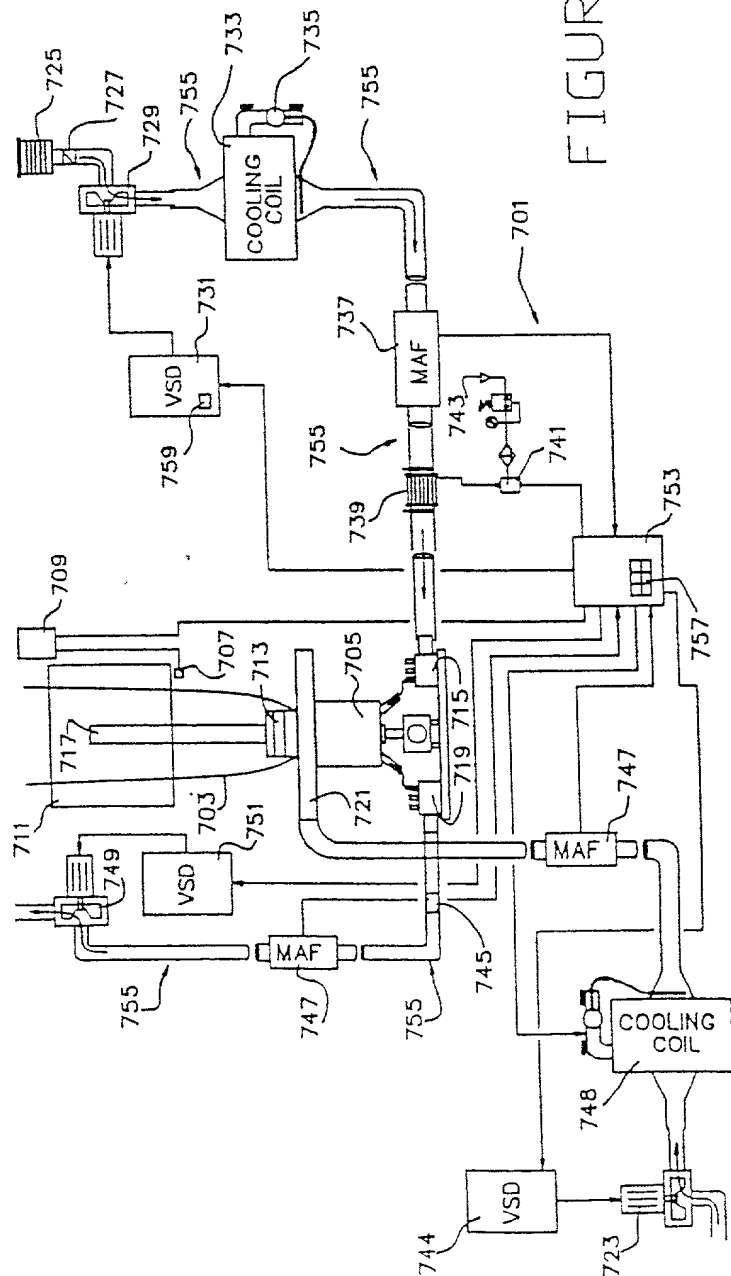


FIGURE 31

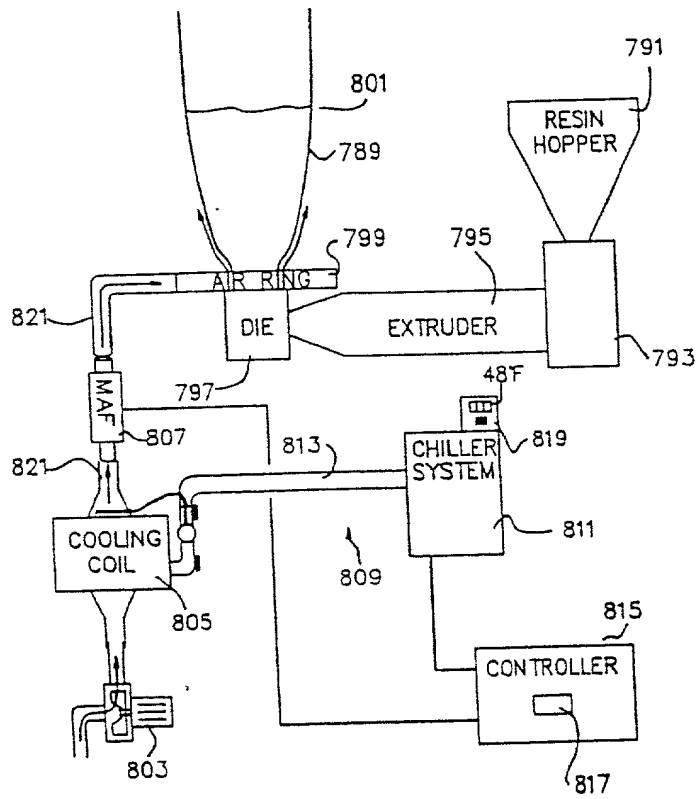


FIGURE 32

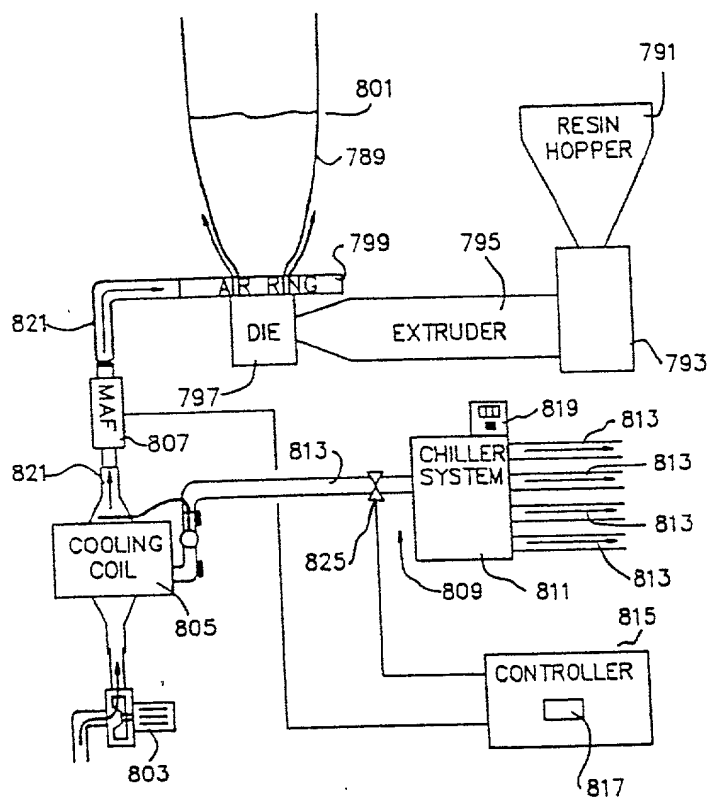


FIGURE 33

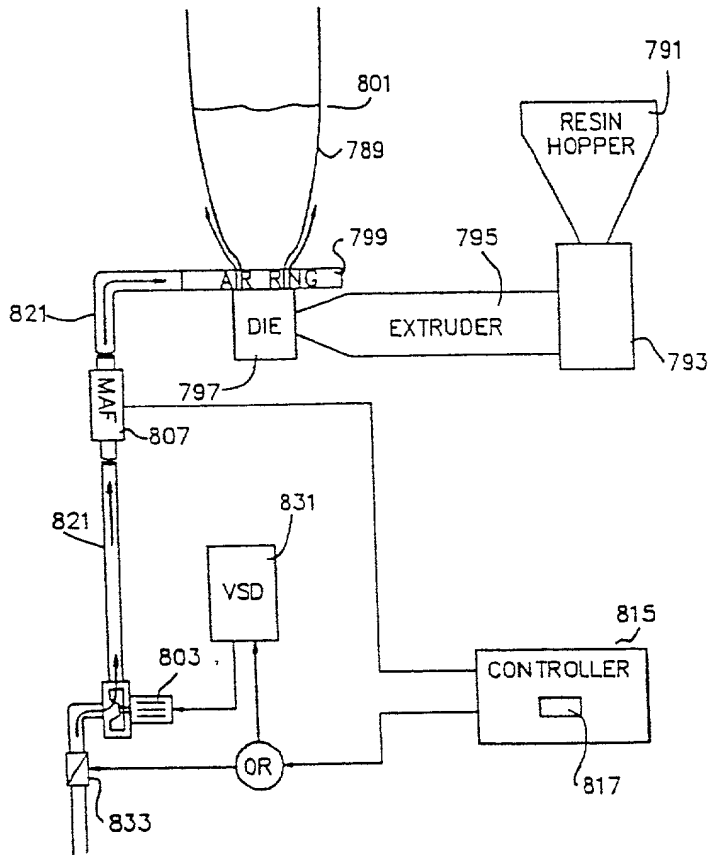


FIGURE 34

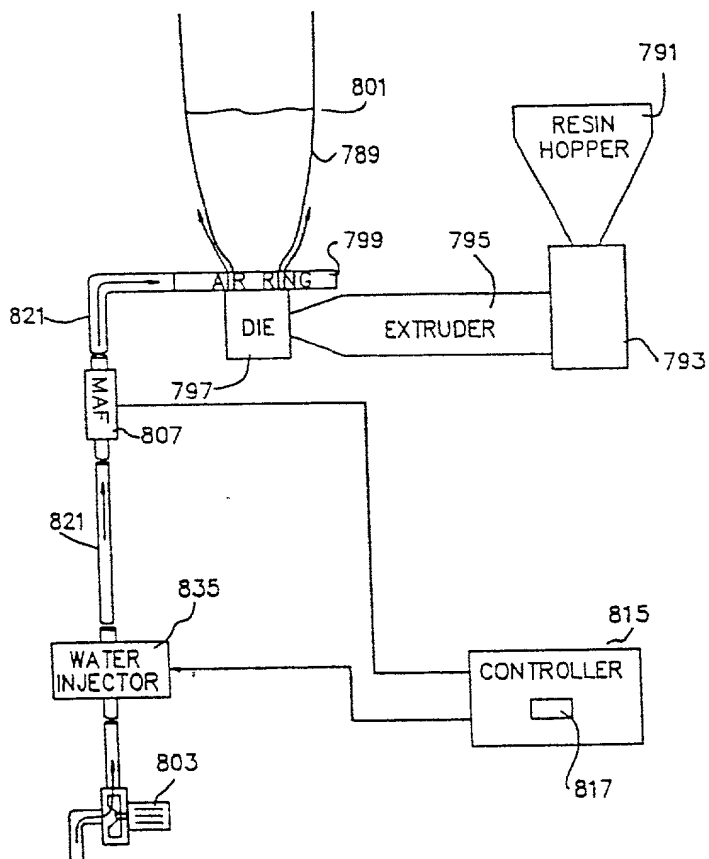


FIGURE 35

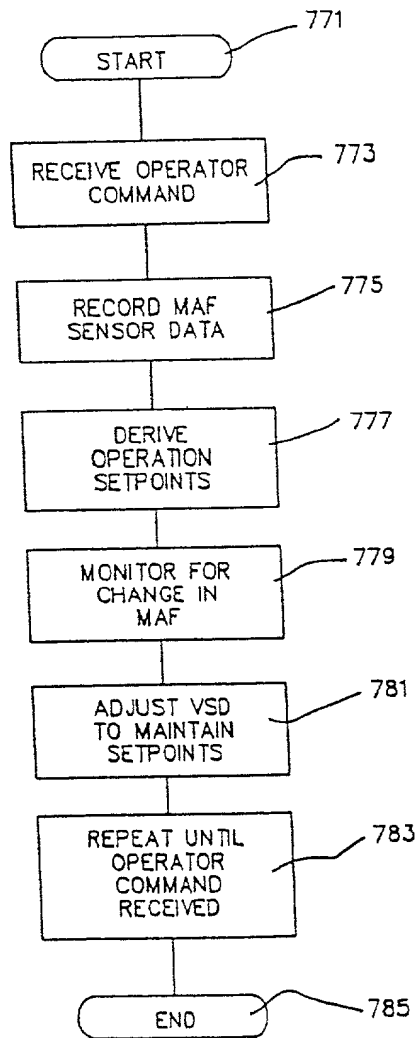


FIGURE 36

09829084-031501

Client _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney _____

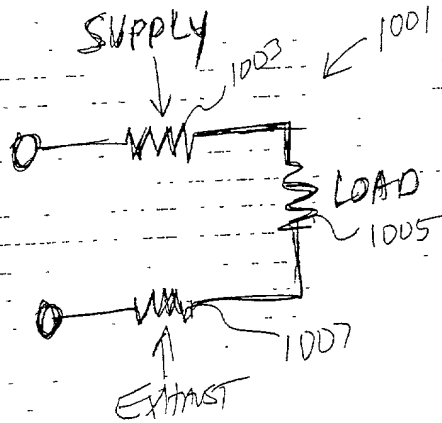


FIGURE 37A
(PRIOR ART)

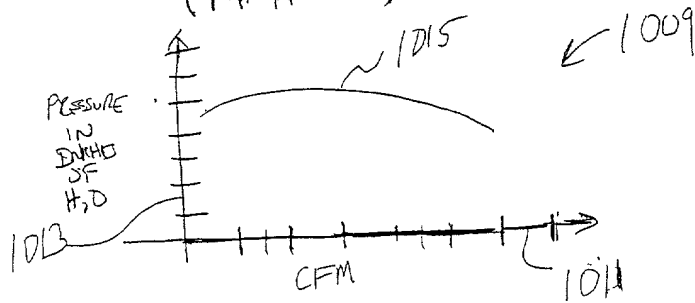


FIGURE 37B
(PRIOR ART)

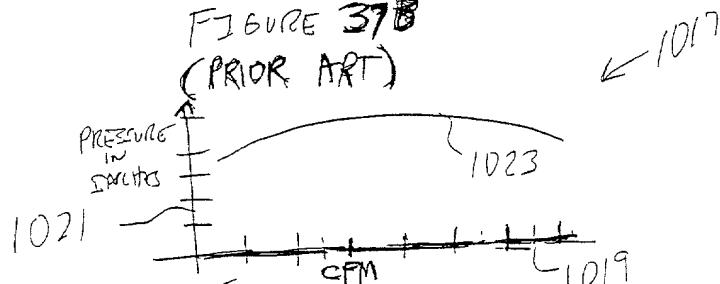


FIGURE 37C
(PRIOR ART)

Attorney _____



FIGURE 37D

FIG. 37E

Client _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney _____

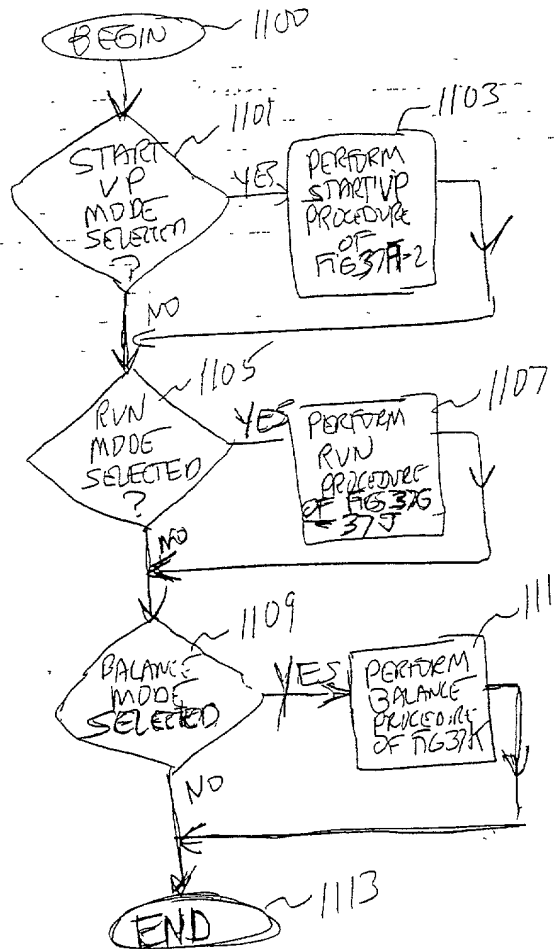


FIGURE 37 E

09829084-031501

Client: _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney: _____

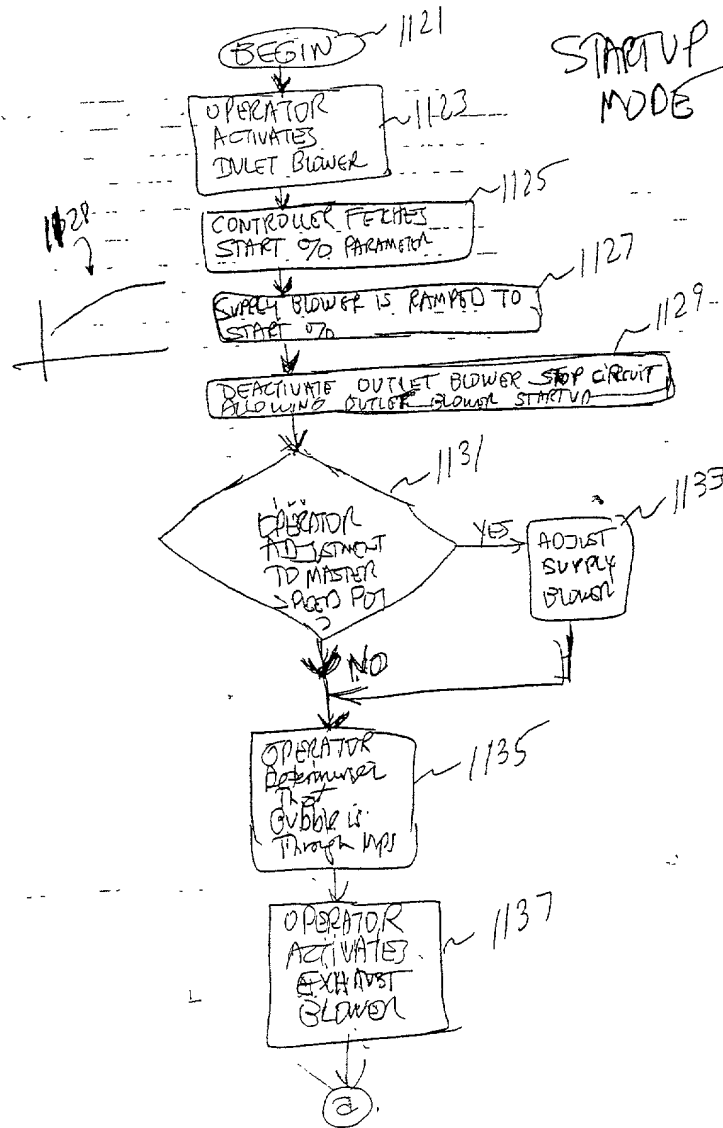


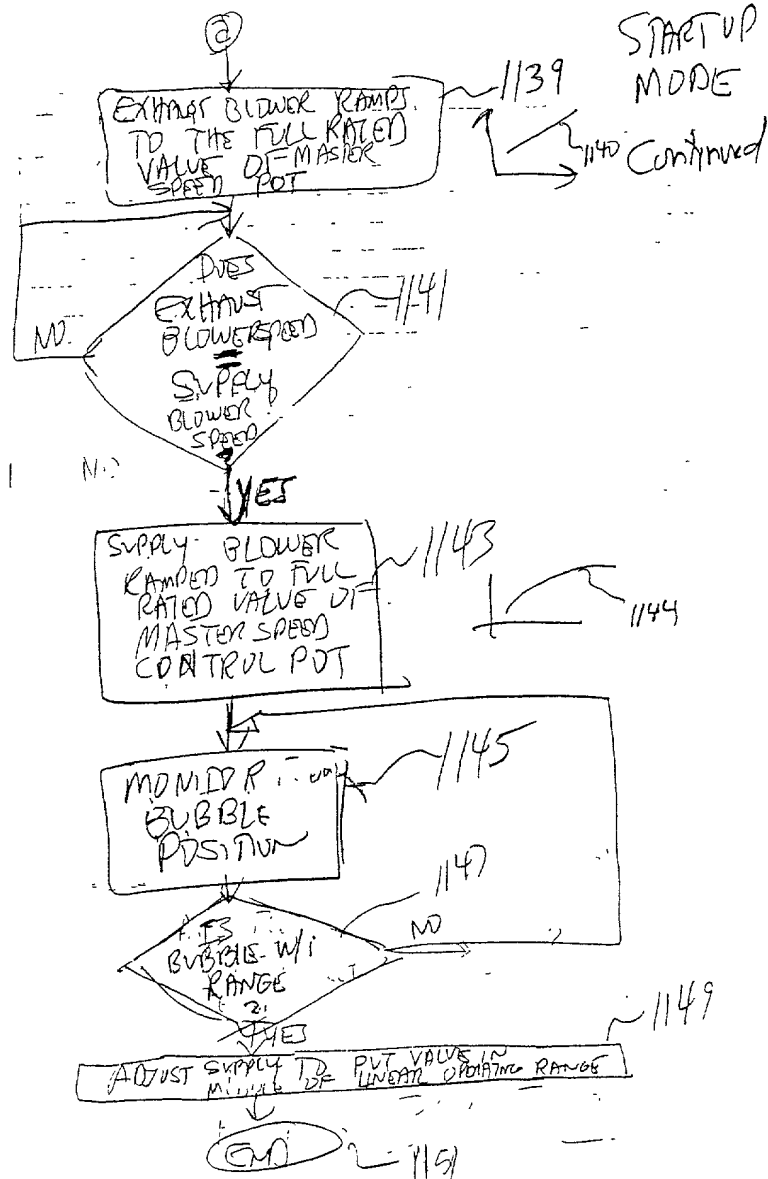
FIG 37 F

09829084-081601

Client _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney _____



0929034-03101

KELSON, & BRADLEY, GUNTER & GUNTER
ATTORNEYS

Client _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney _____

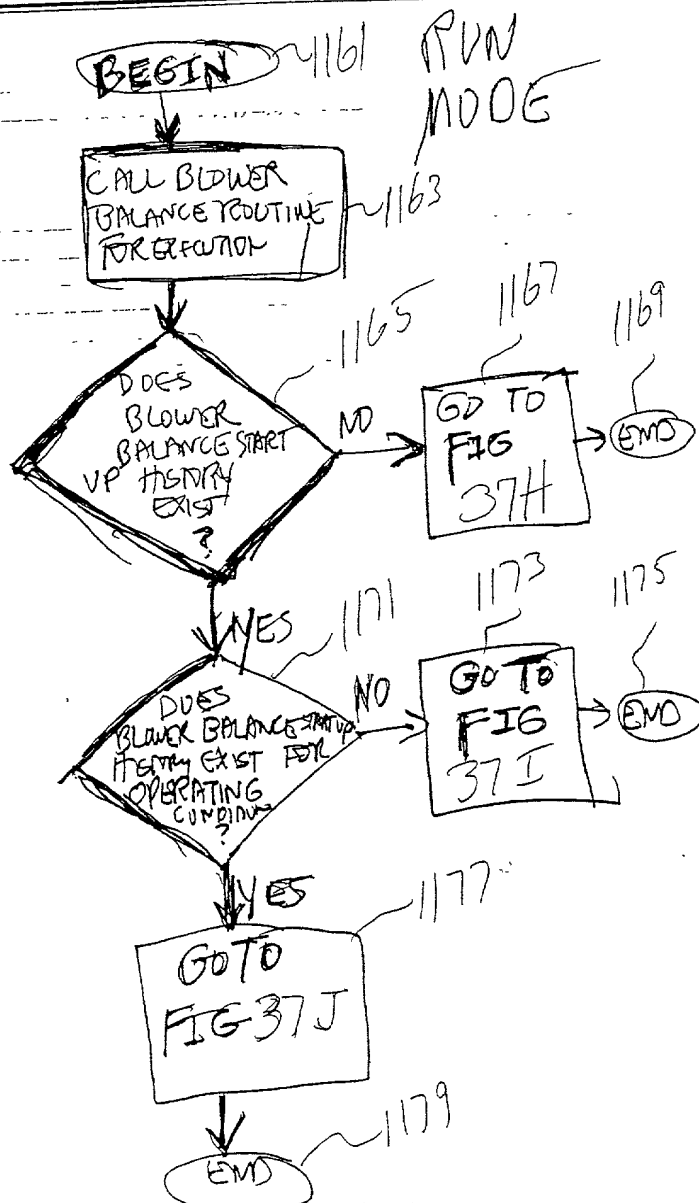


FIGURE 37G

0922034-031601

ATTORNEYS

Client _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney _____

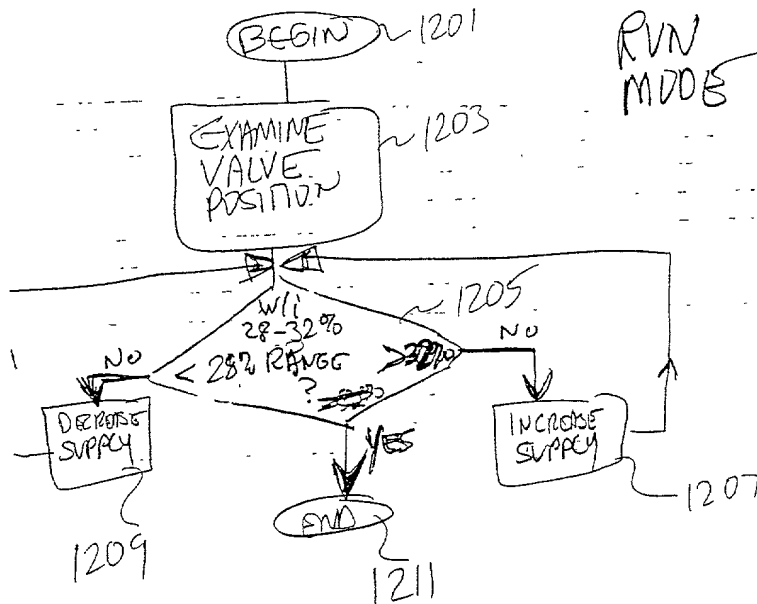


FIGURE 3TH

PATENT SKETCH FORM

Attorney _____

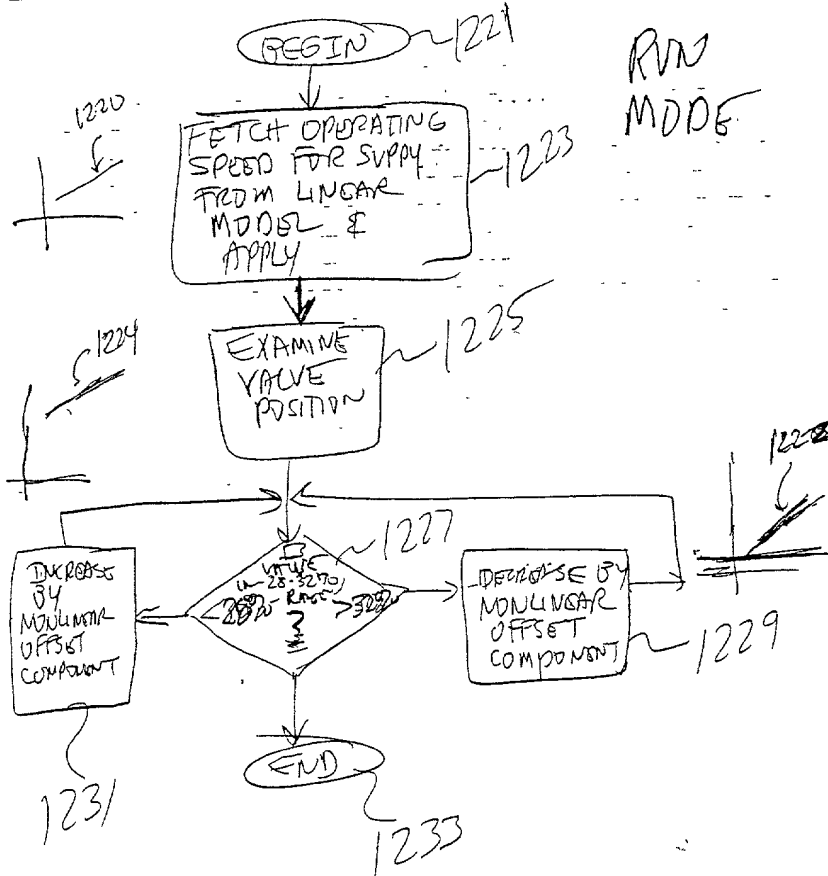


FIGURE 37 I

09829084-031601

Sheet No. _____ of _____
File No. _____
Date _____

PATENT SKETCH FORM

Attorney _____

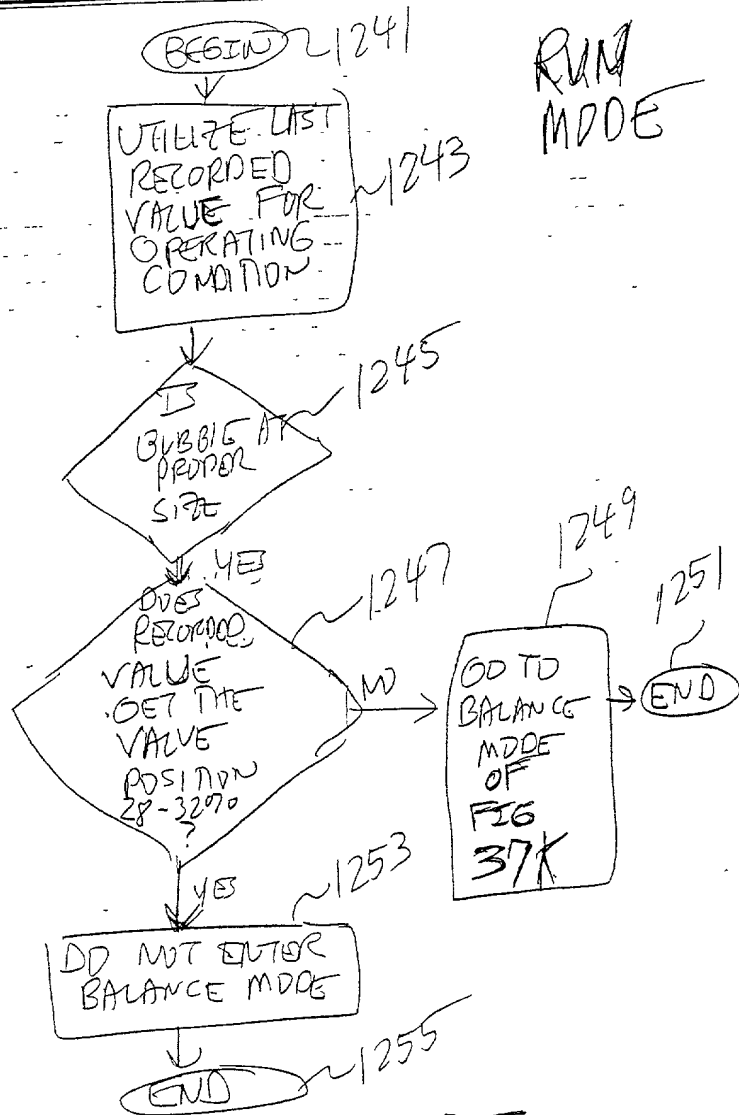


FIGURE 37J

PATENT SKETCH FORM

Attorney _____

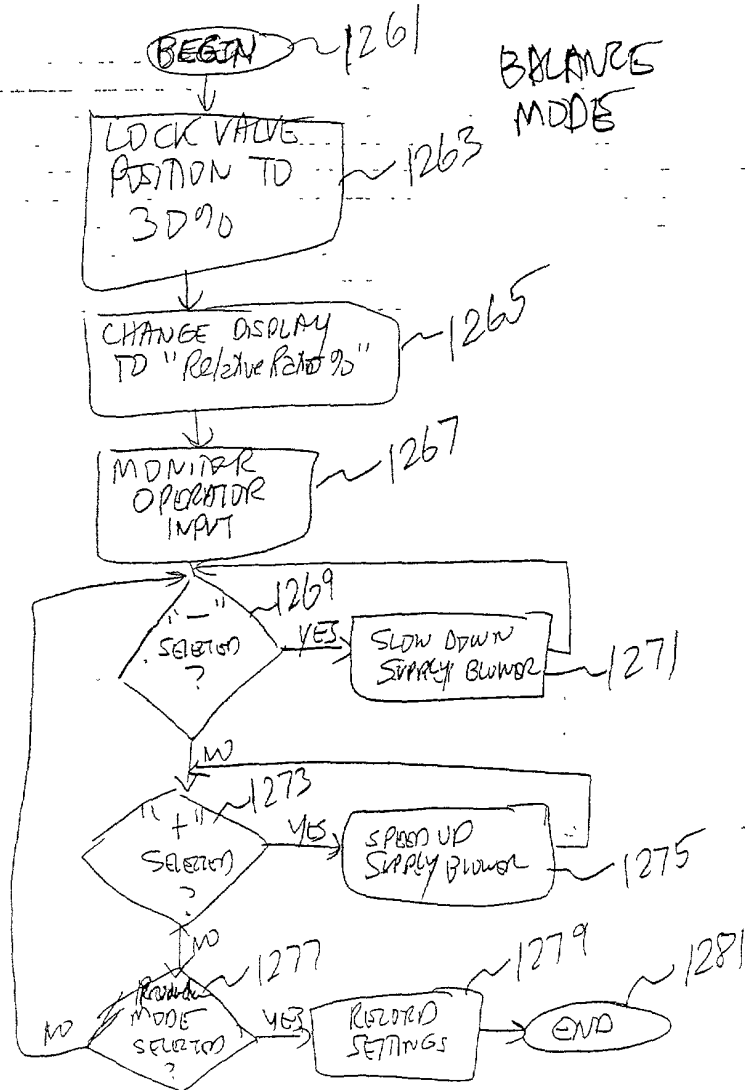


FIGURE 37K

0929024-031501

09829084-081601
109180-48052860

ATTORNEYS

Client _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney _____

1301 ↓ MASTER SPEED POT SETTING	1303 ↓ (Supply) SPEED	1305 ↓ REFERENCE VOLTS
A 70	AC	BD
B 70	AG	BF
⋮		
Z 0%	AM	BX

FIGURE 37L

PATENT SKETCH FORM

Attorney _____

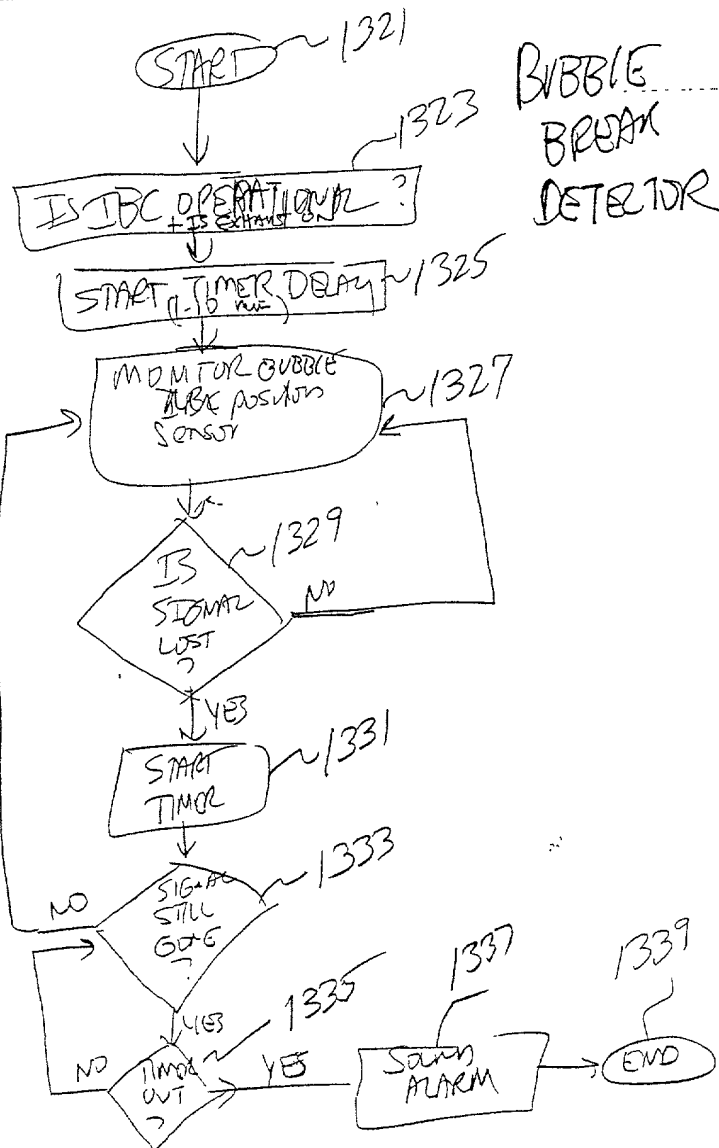
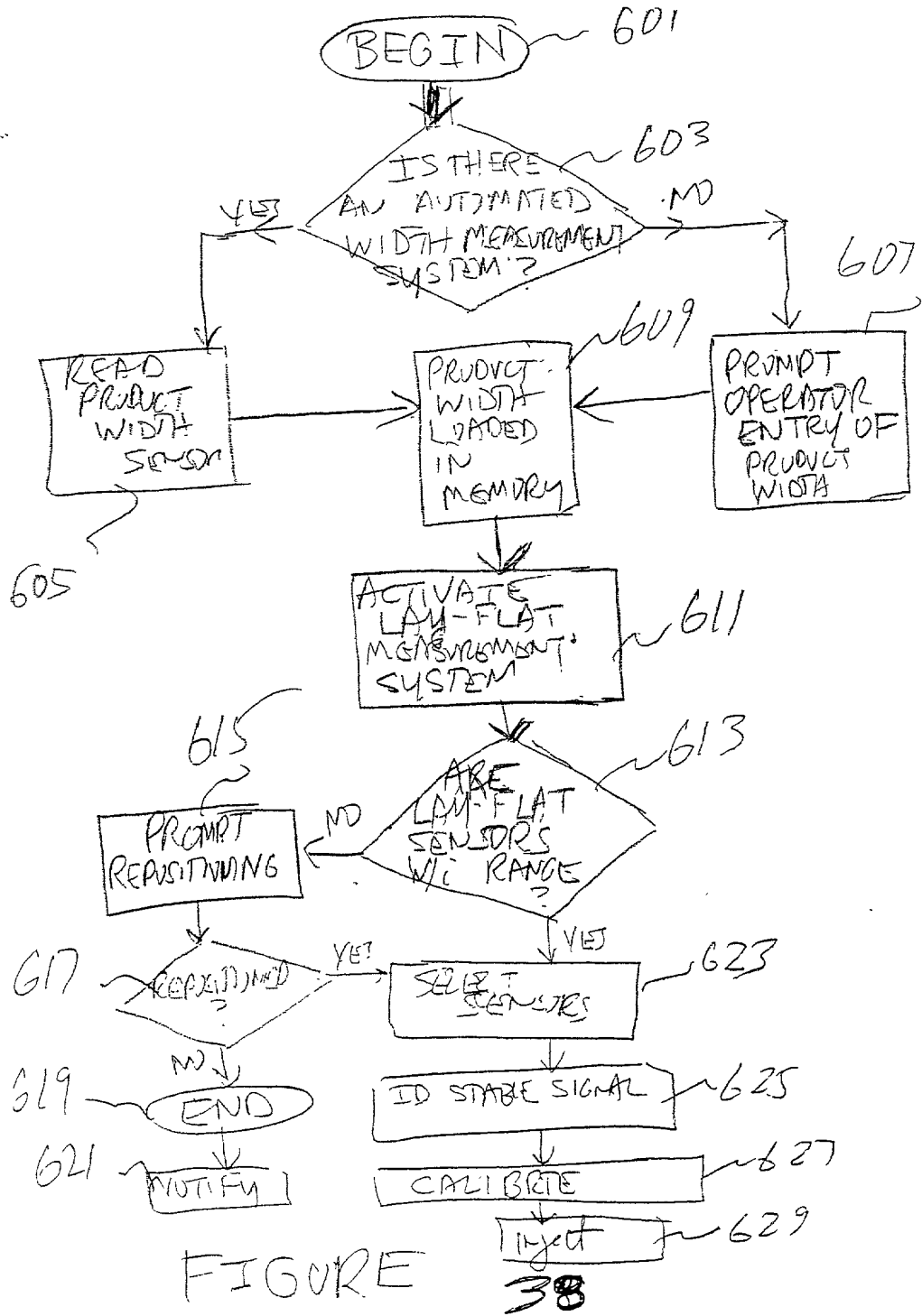


FIGURE 37M

0929084-031601



FIGURE

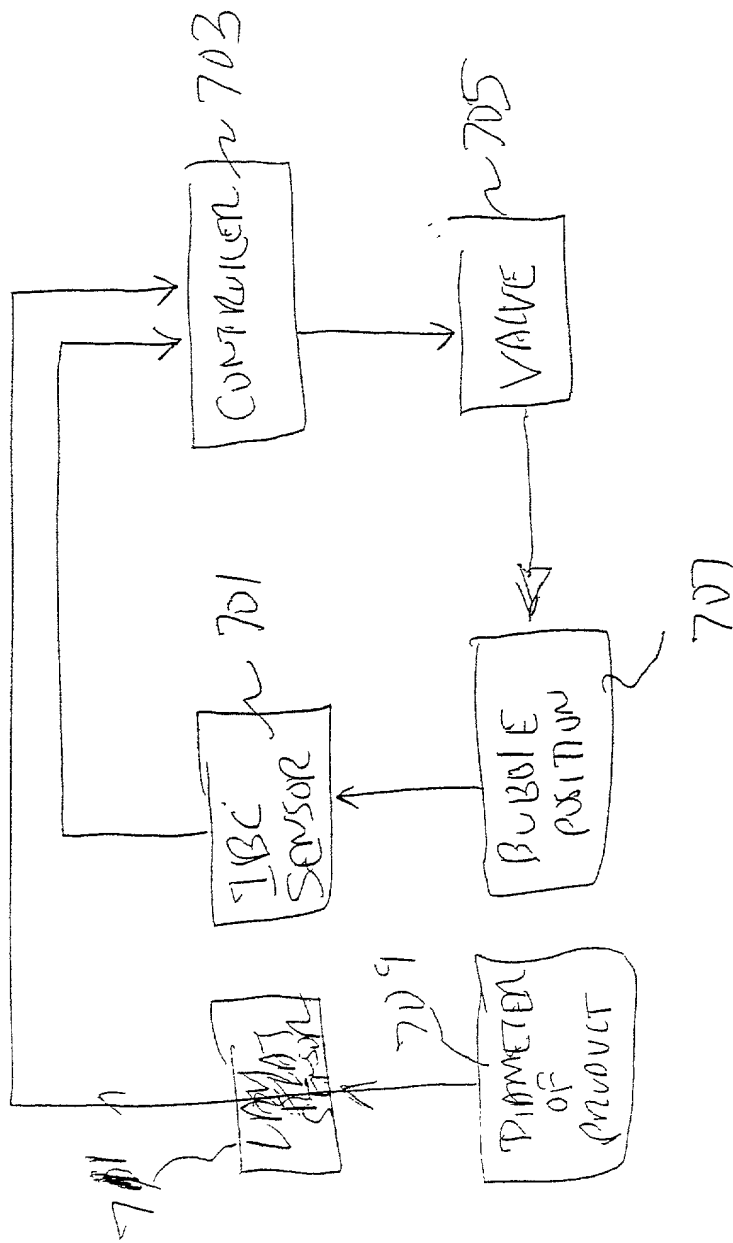


FIGURE 39

09323084.081501

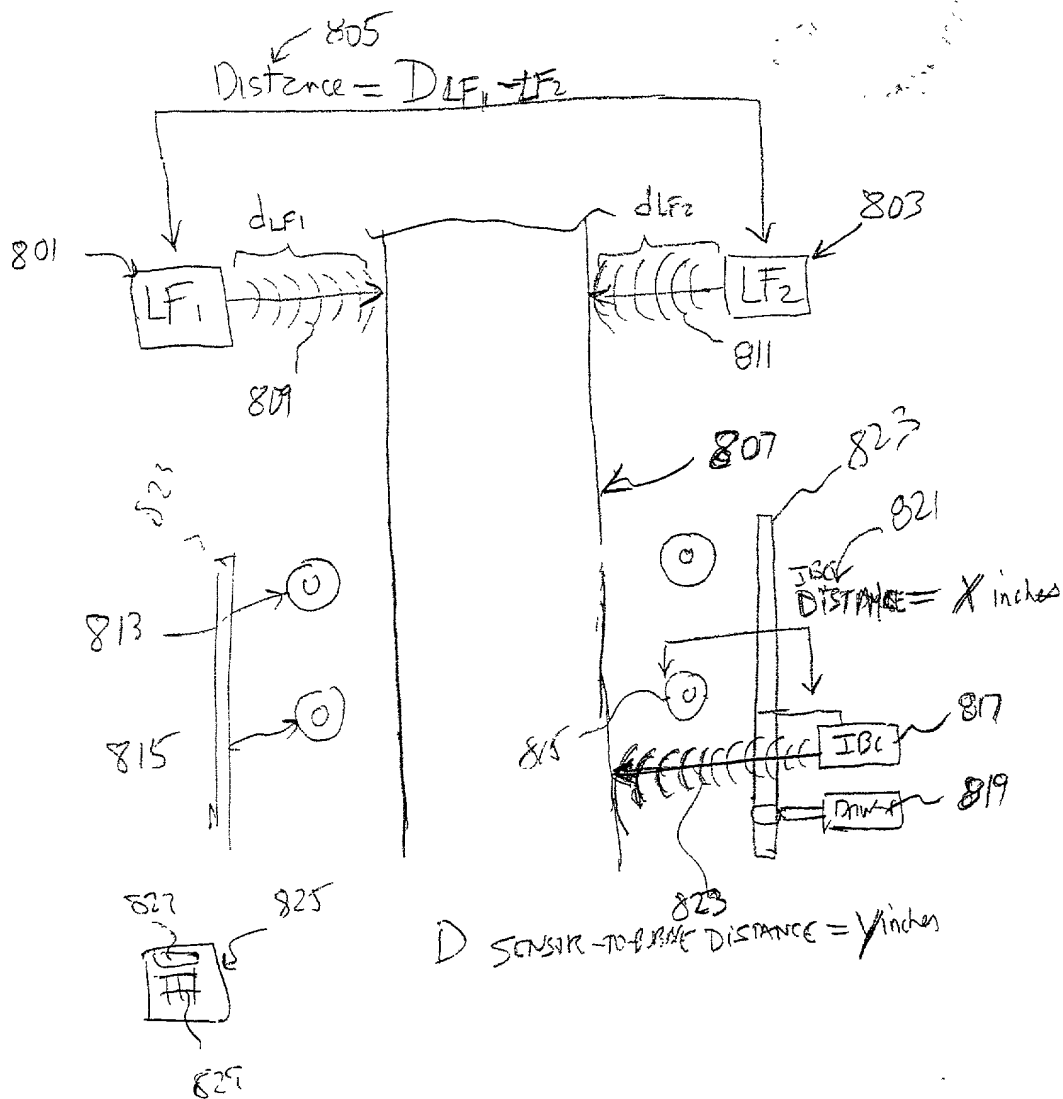


FIGURE 40

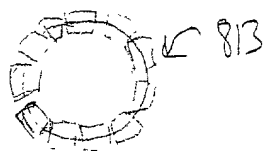


FIGURE 41

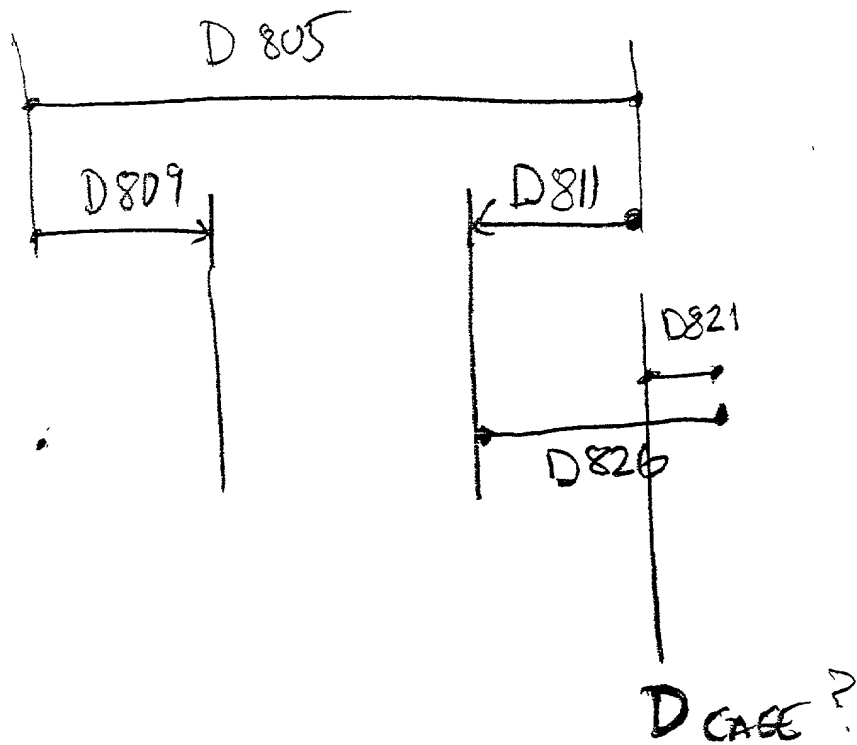


FIG 423

$$D_{CAGE} = (D805 - D809 - D811) + (D826 - D821)$$

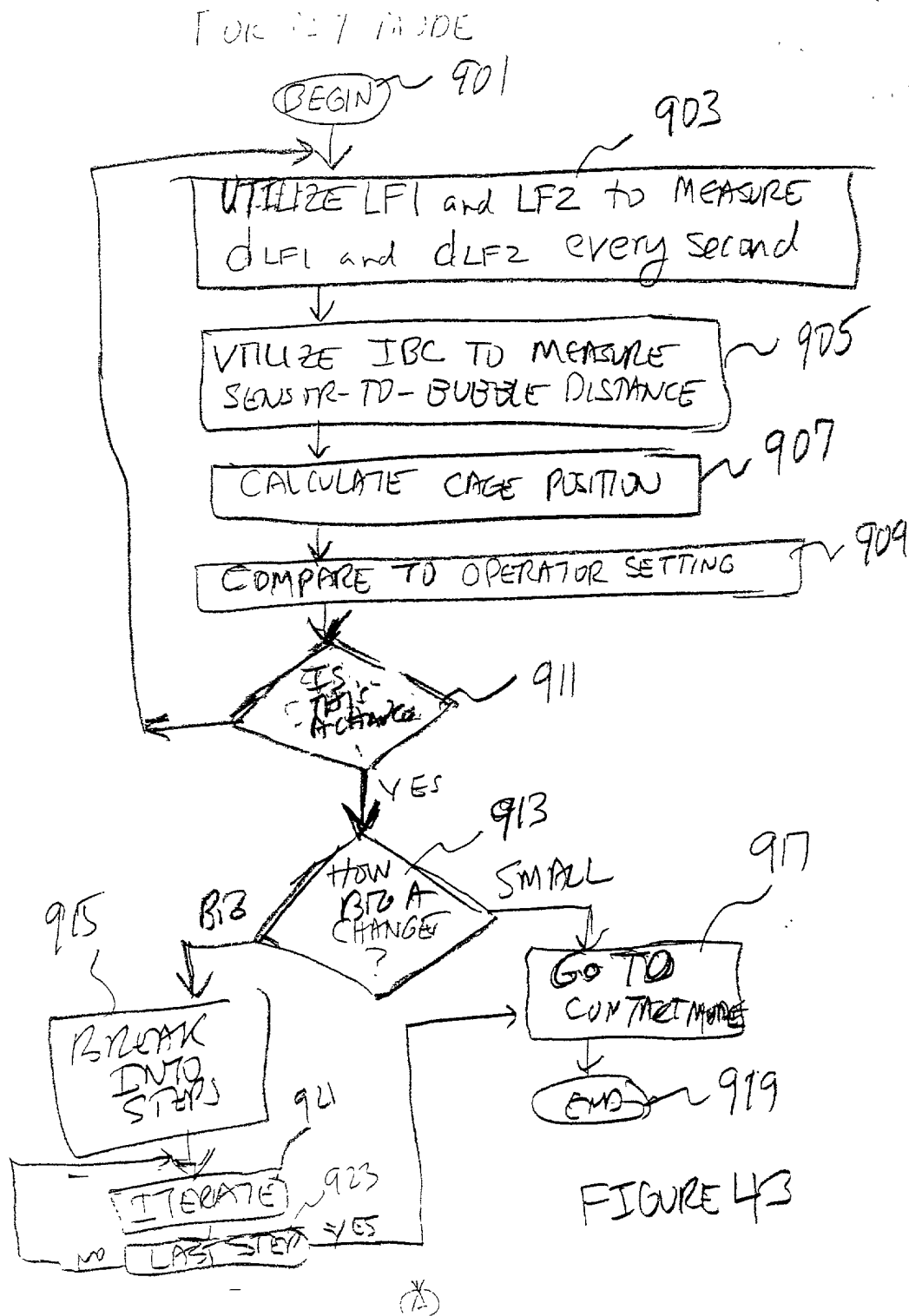


FIGURE 43

This Routine Runs
only when Echo loss occurs

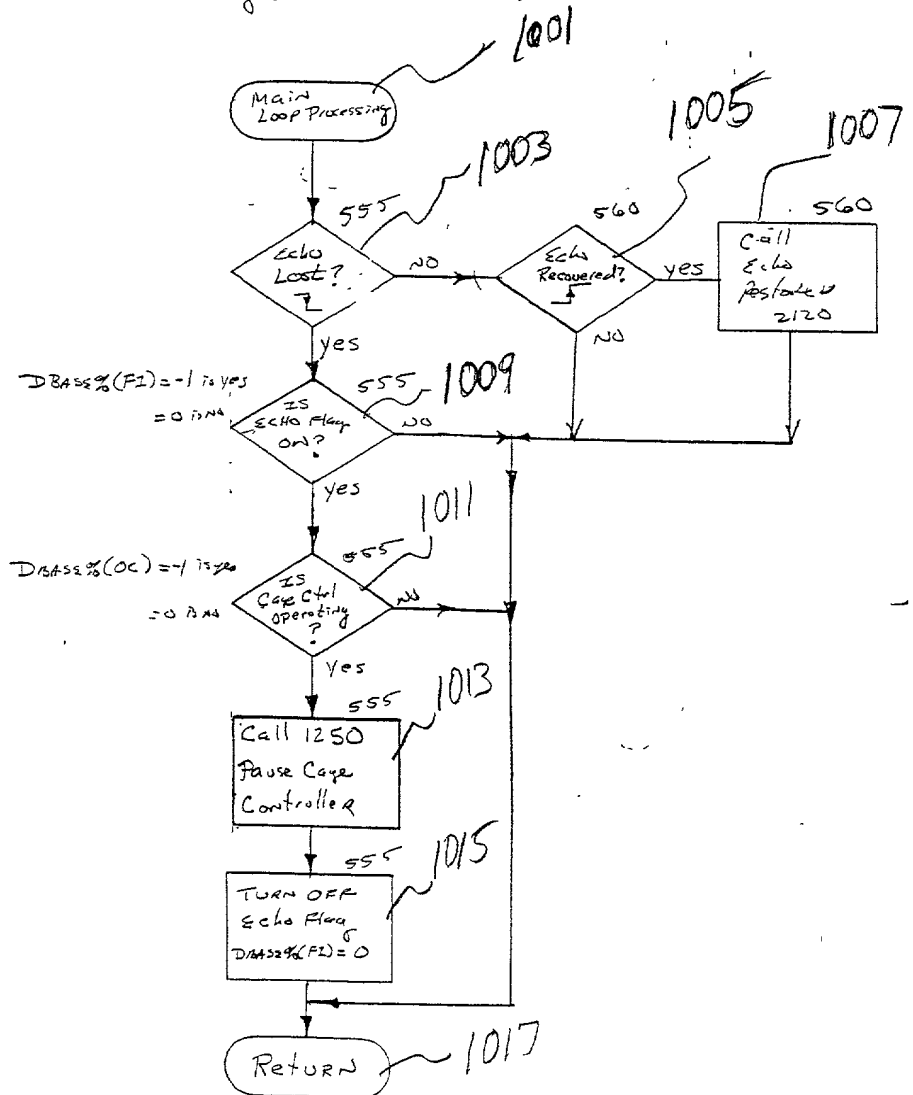


FIGURE 44A

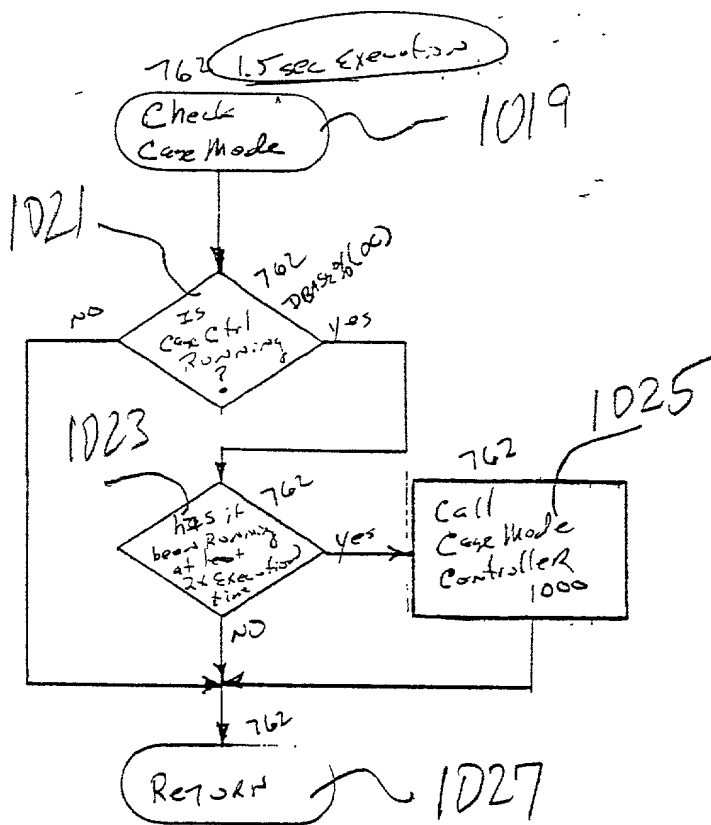
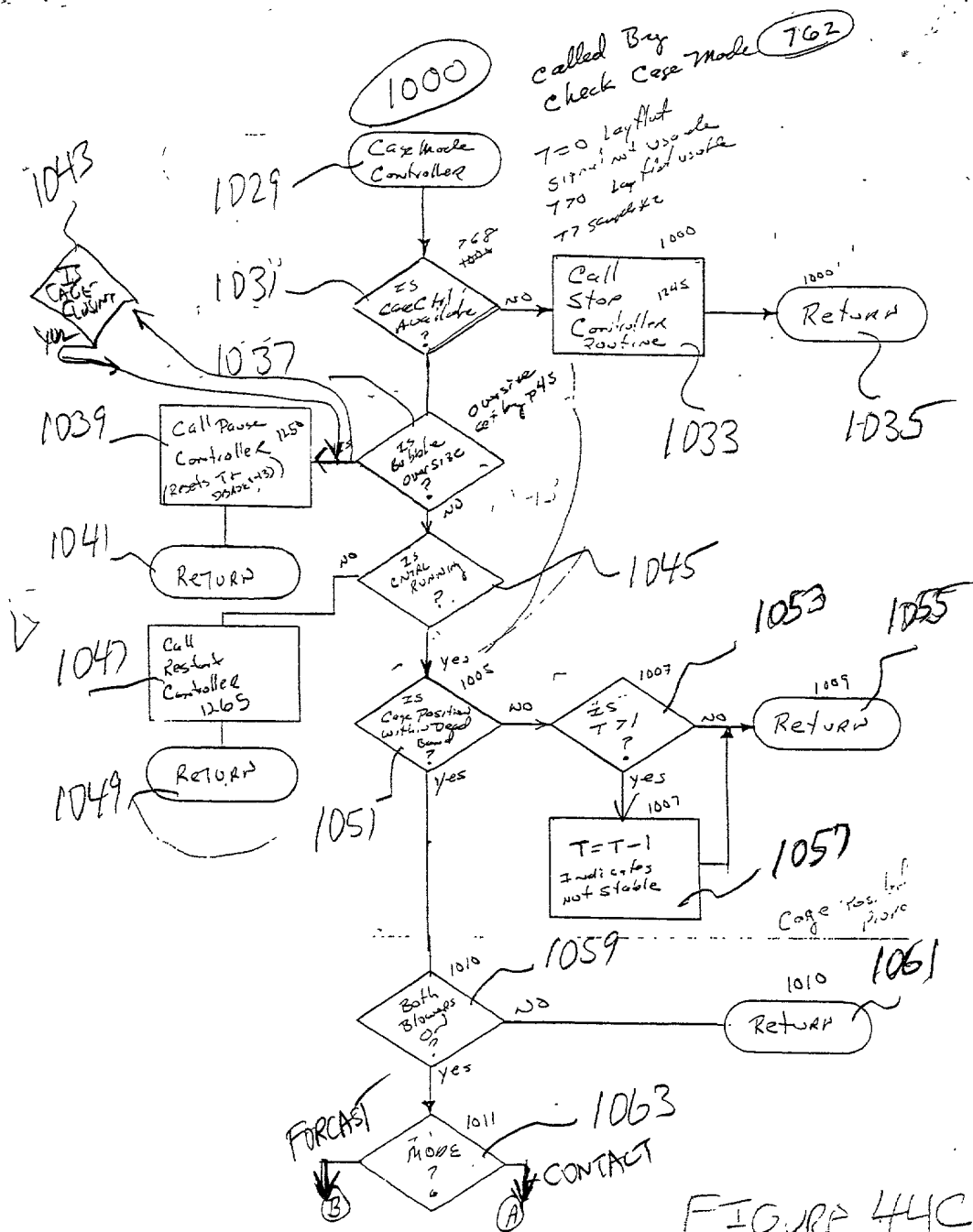


FIGURE 44B

THE



09829084-081501
10918048062860

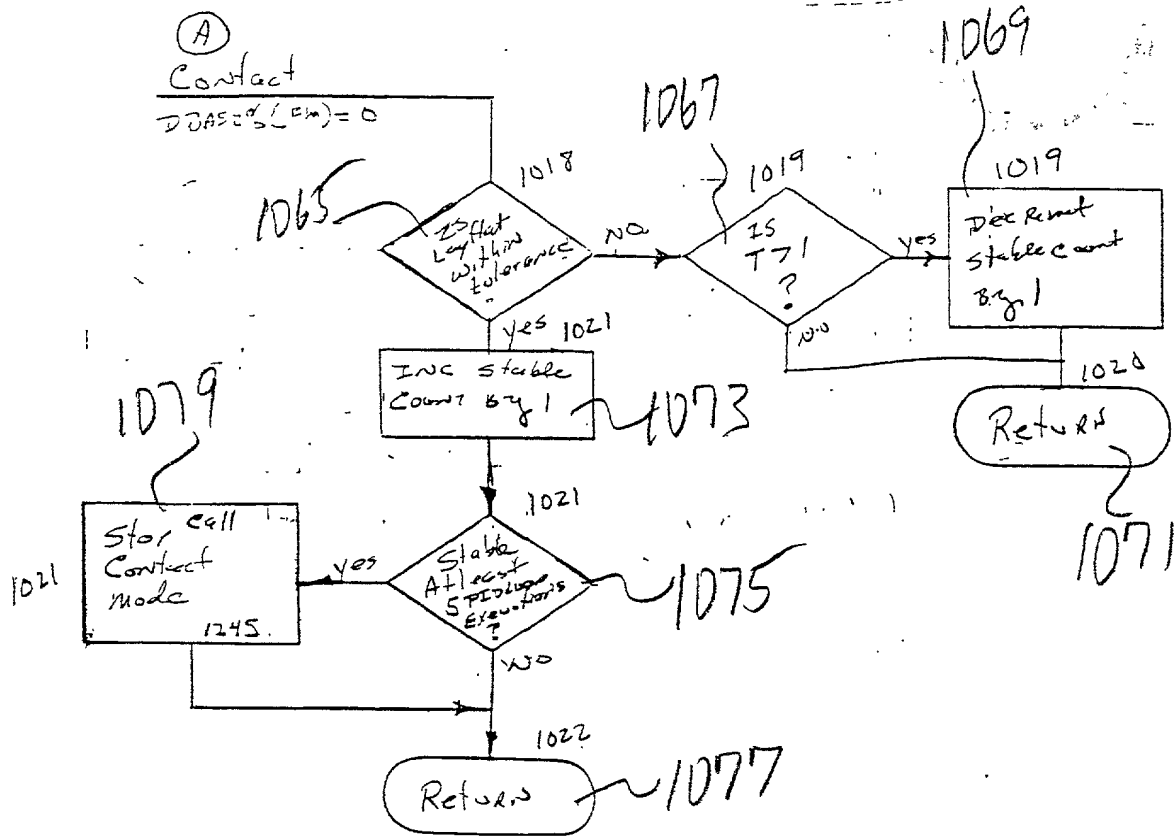


FIGURE 44D
CONTACT MODE

```

graph TD
    Start([Start]) --> 1011[Forecast B  
DRAFF% (FM) = -1]
    1011 --> 1012[Calculate Difference  
Between Operator  
SP + Csg SP]
    1012 --> 1013{Steps Completed?  
4020}
    1013 -- No --> 1015{Is Setpoint  
within 1/2 LRC  
window?}
    1013 -- Yes --> 1014[Increment Stability  
Counter  
T = T + 1]
    1014 --> 1015
    1015 -- No --> 1016[Move Controller  
Setpoint by  
1/2 LRC window  
toward operator  
Setpoint]
    1015 -- Yes --> 1017[Make Csg  
SPs Operator  
SP + point]
    1017 --> 1018[Return]
    1016 --> 1019[Set Delay  
Timer to  
ensure 1/2 LRC  
Executes before  
Direct Control  
1017]
    1019 --> 1020[Return]
    1018 --> 1020
    1020 --> End([End])

```

FIGURE
44E
FORECAST
MODE

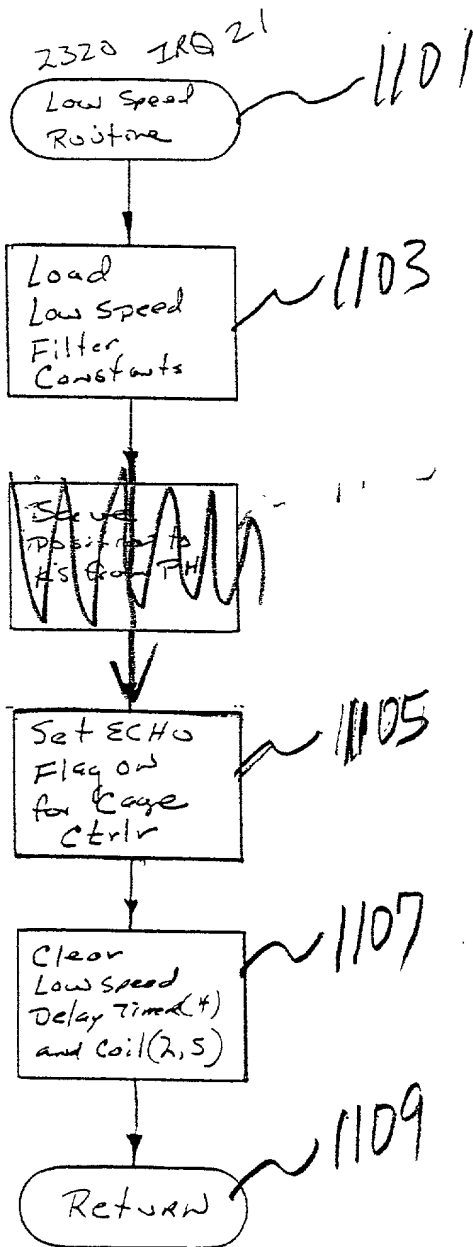


FIGURE 44 F

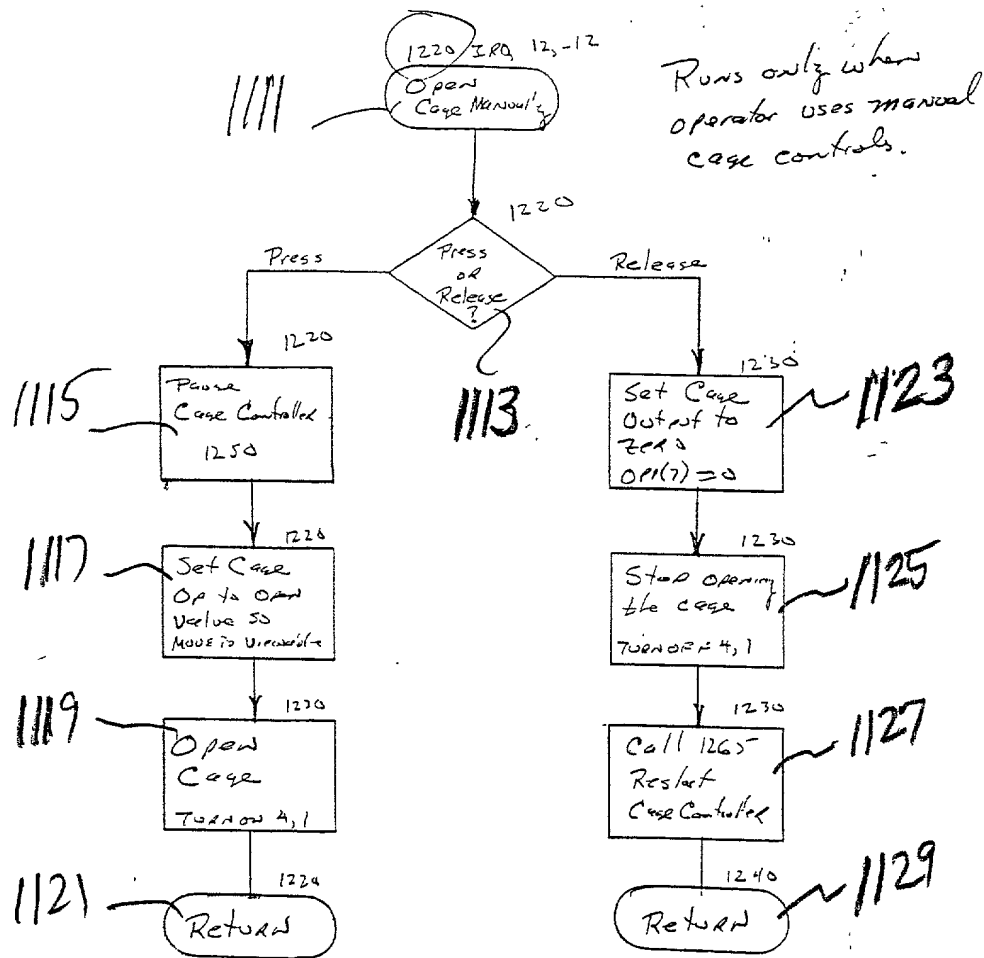


FIGURE 44G

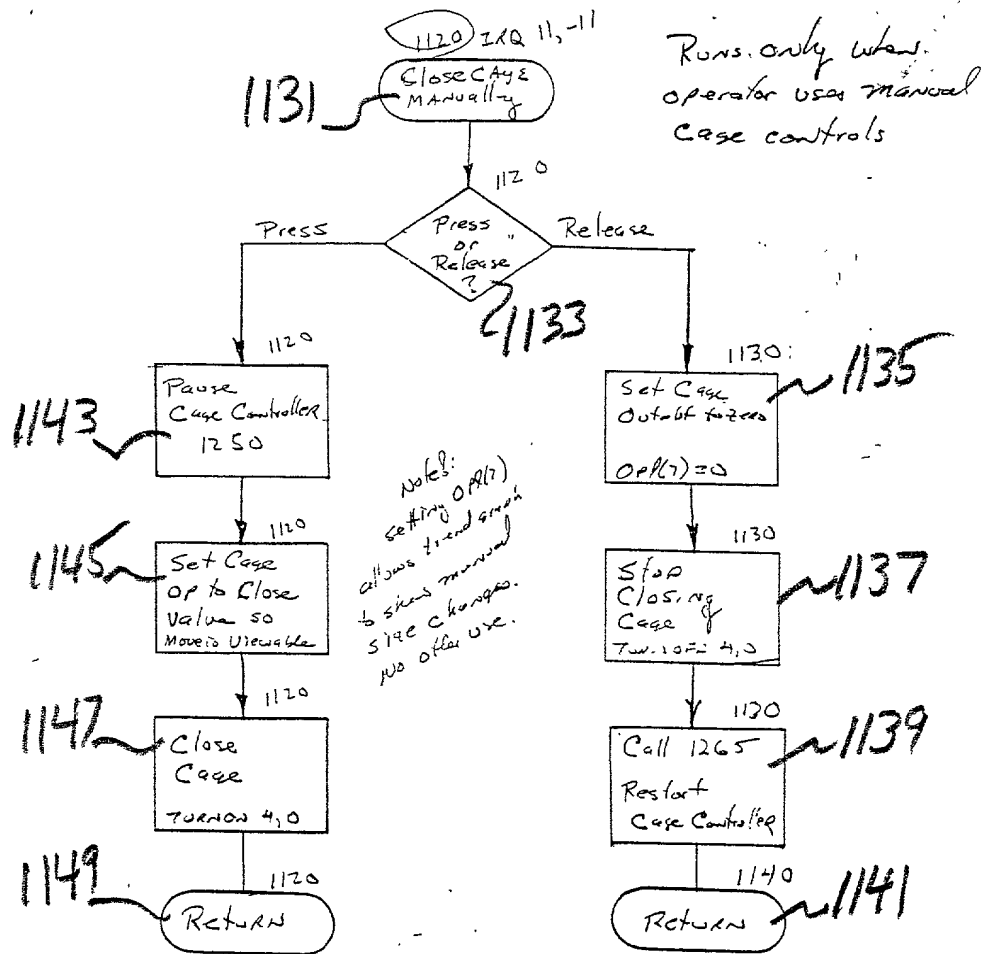


FIGURE 44 H

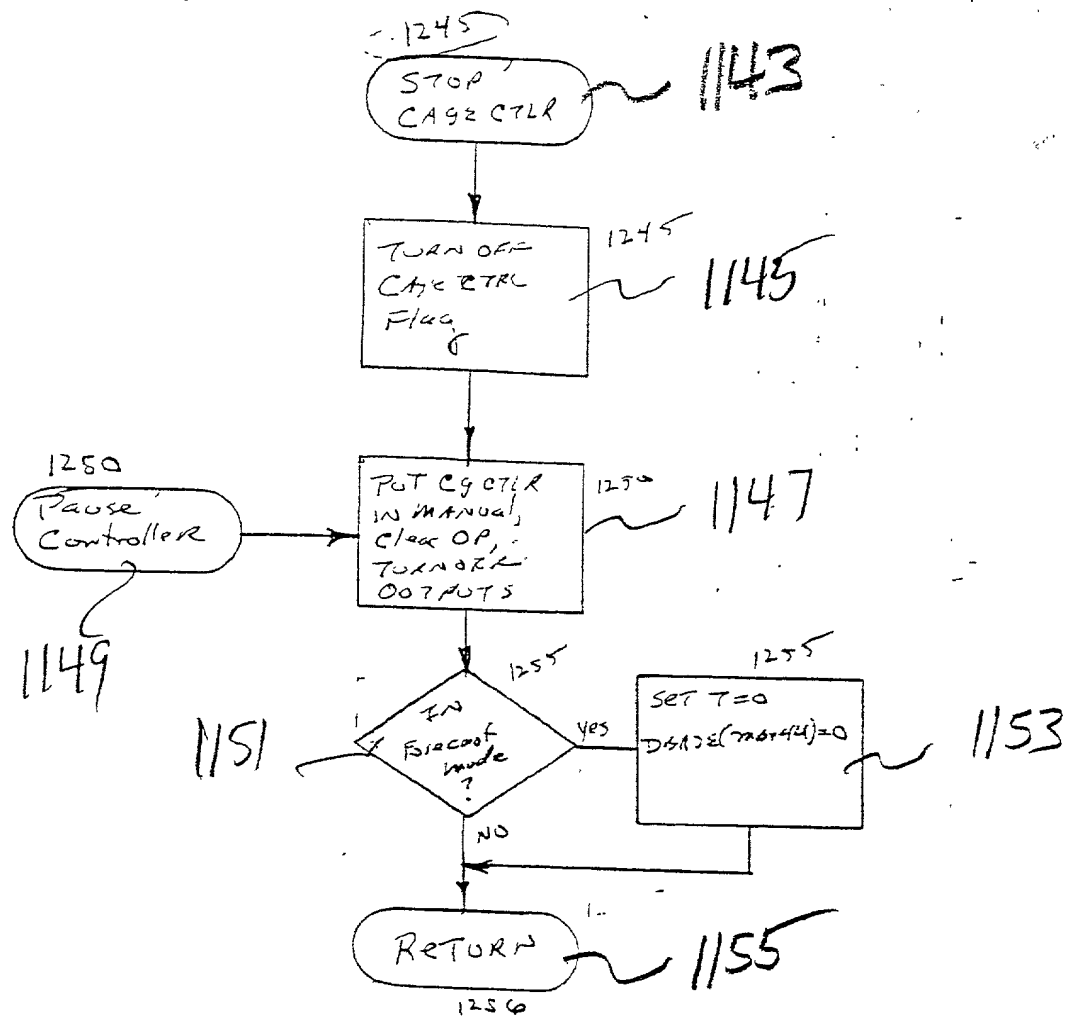


FIGURE 44 I

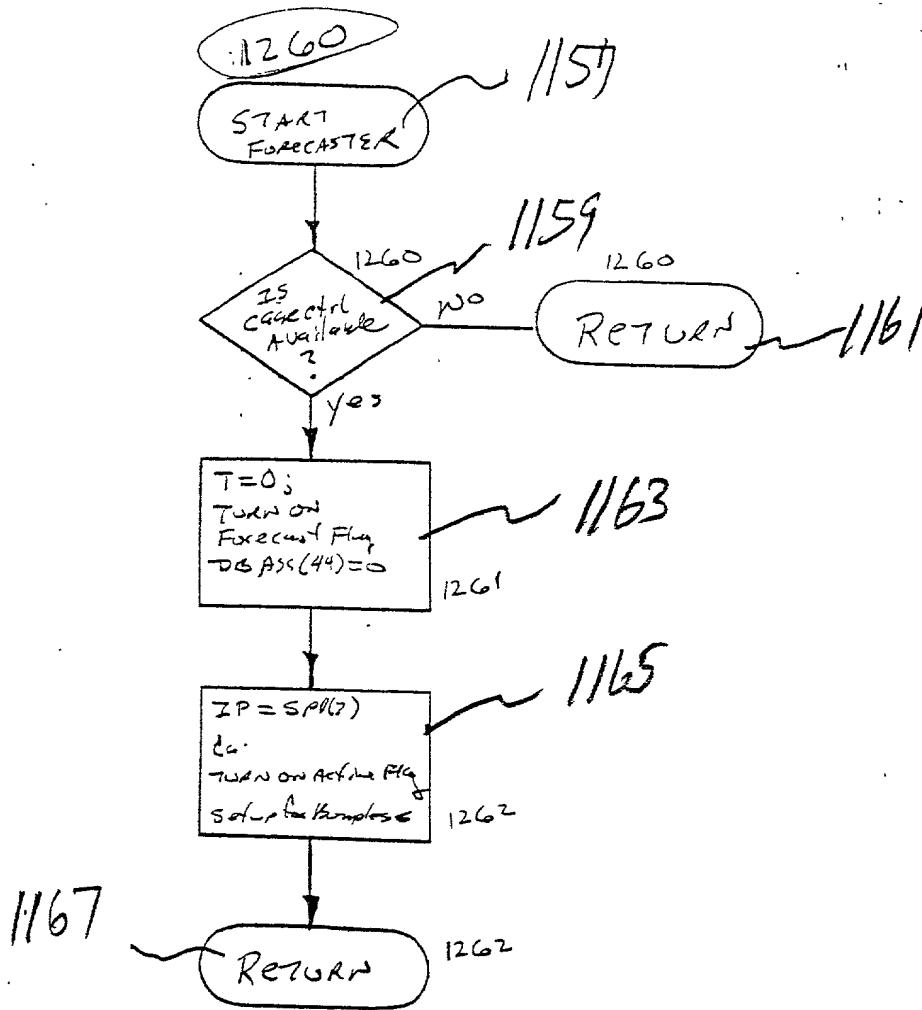


FIGURE 44J

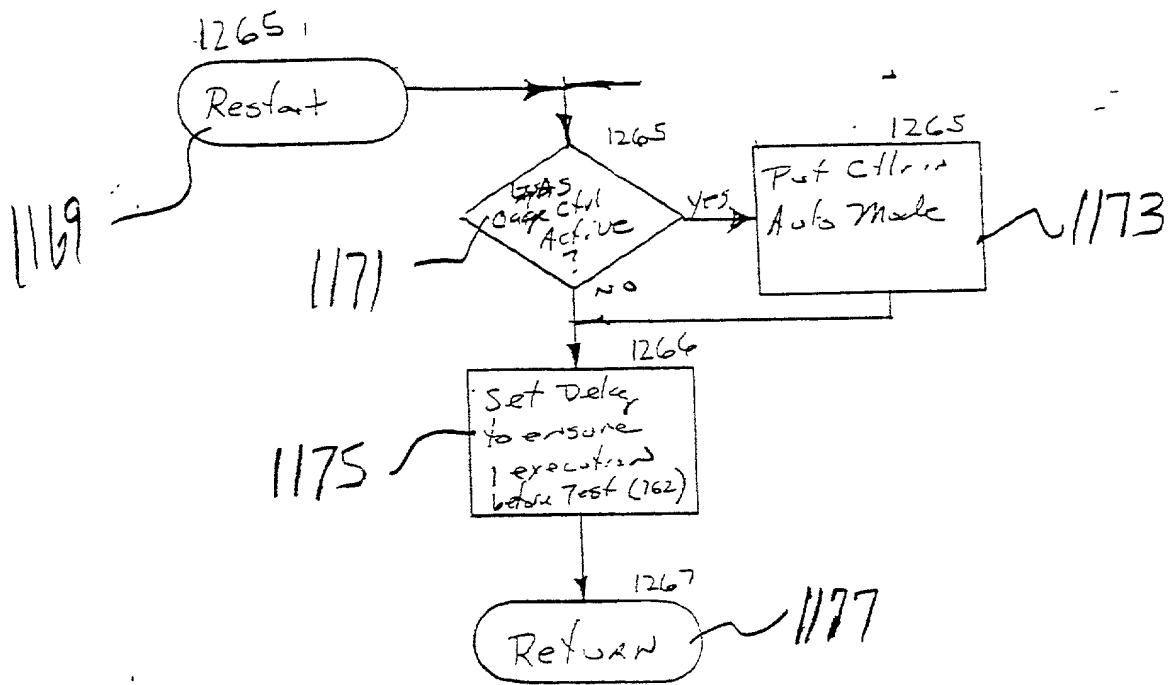


FIGURE 44K

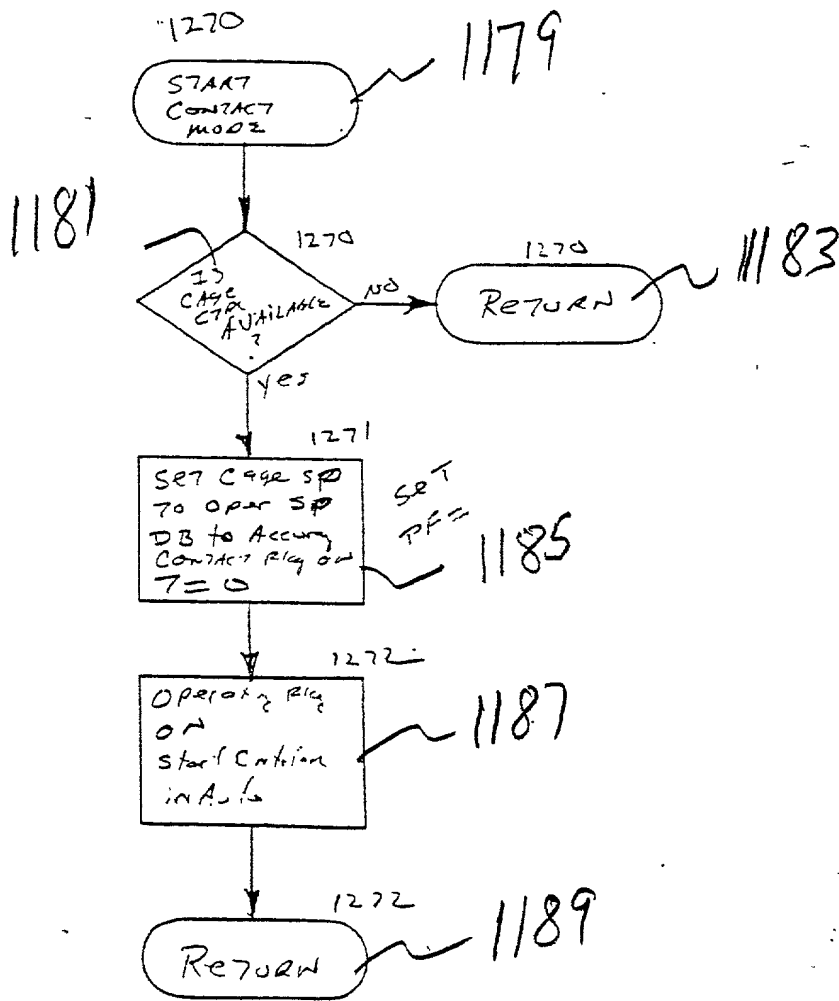


FIGURE 44L

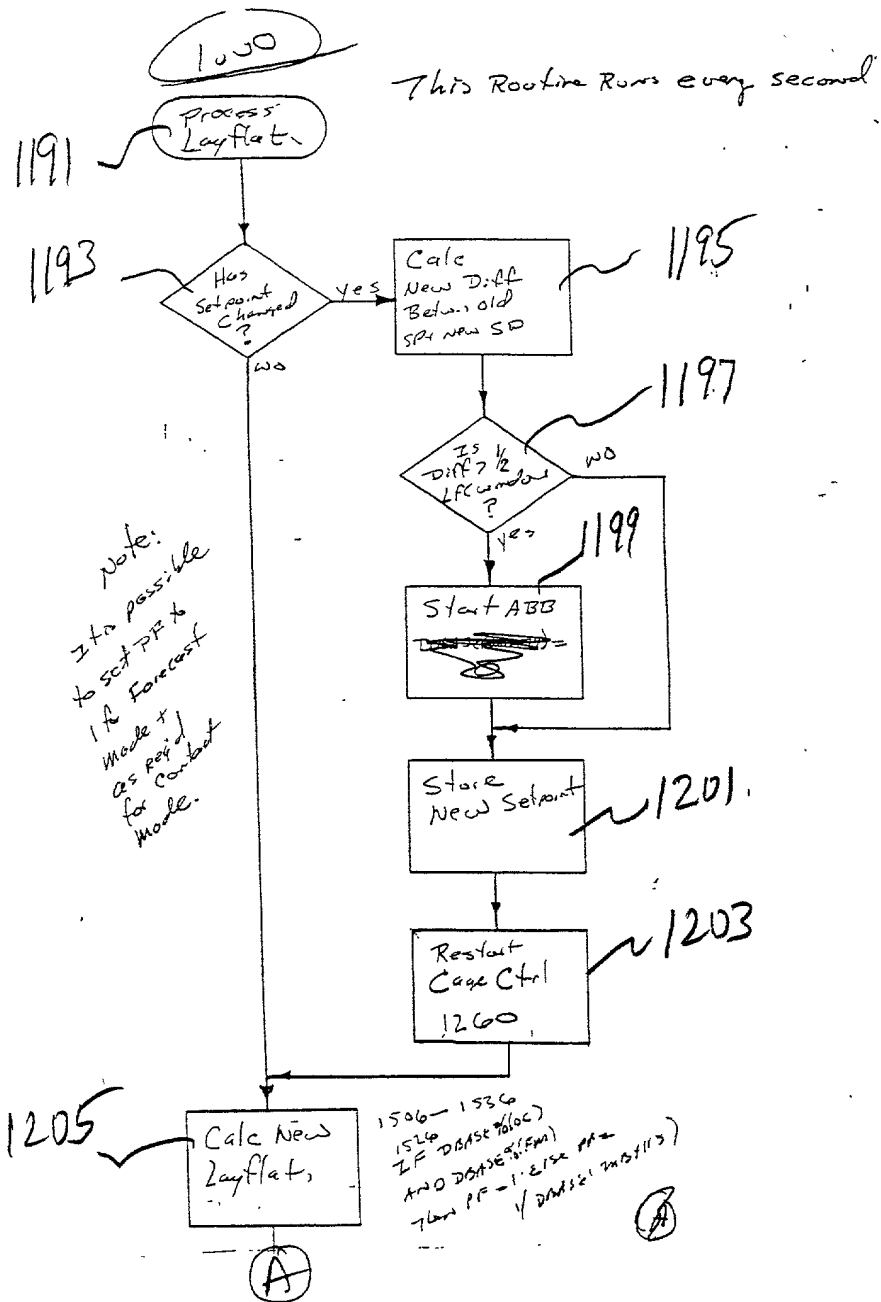


FIGURE 44M

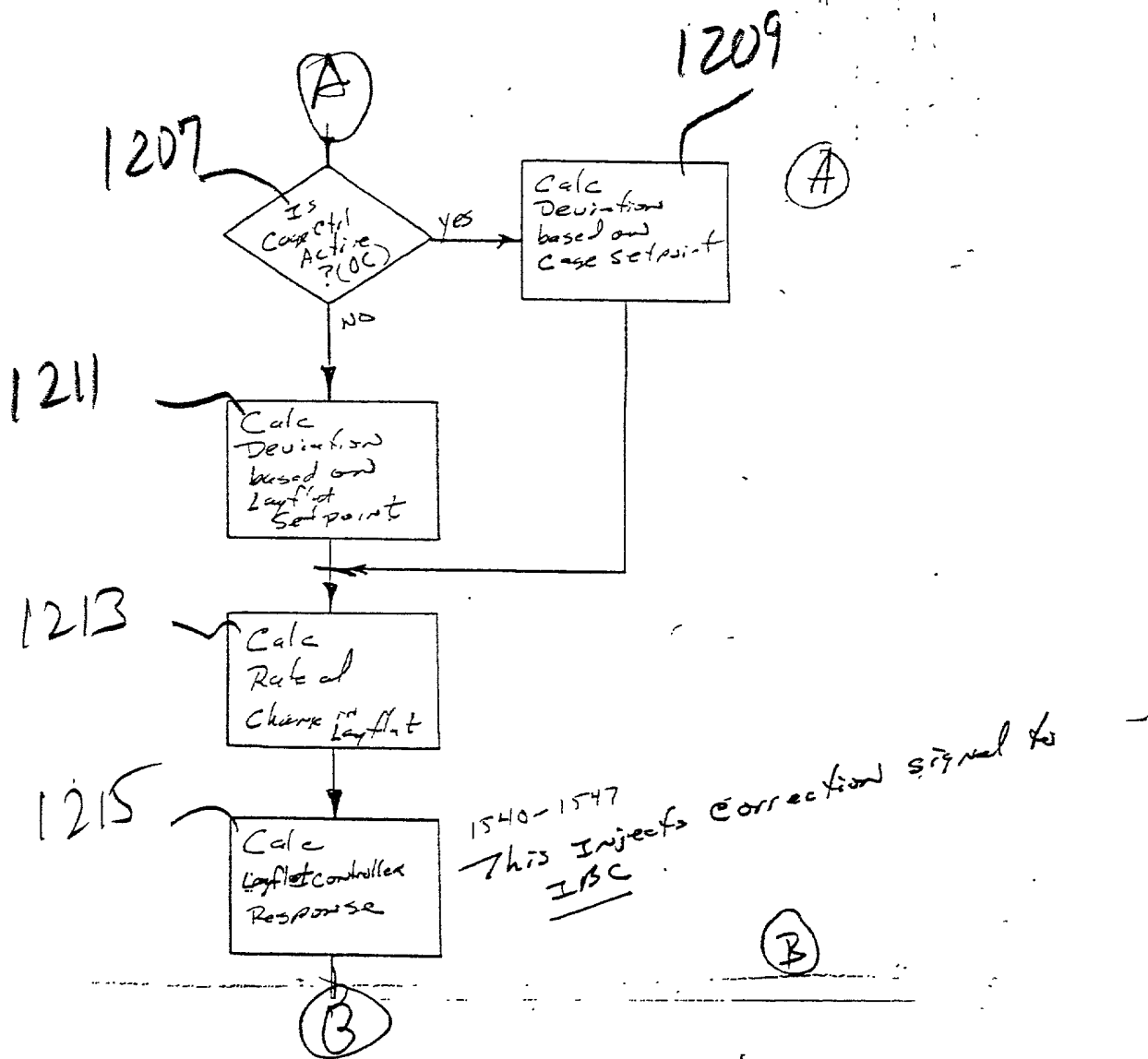
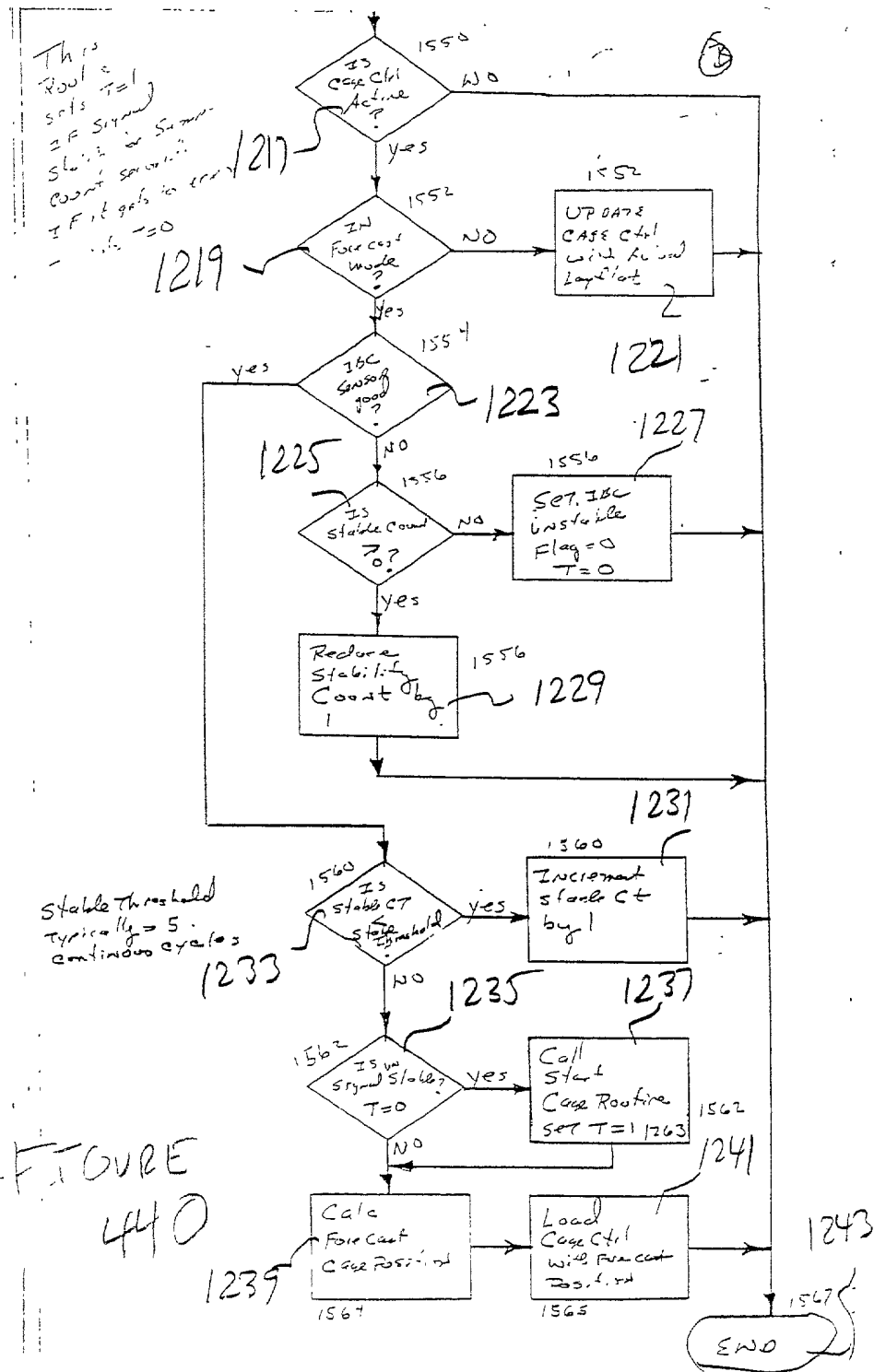


FIGURE 44N



09829084.031601

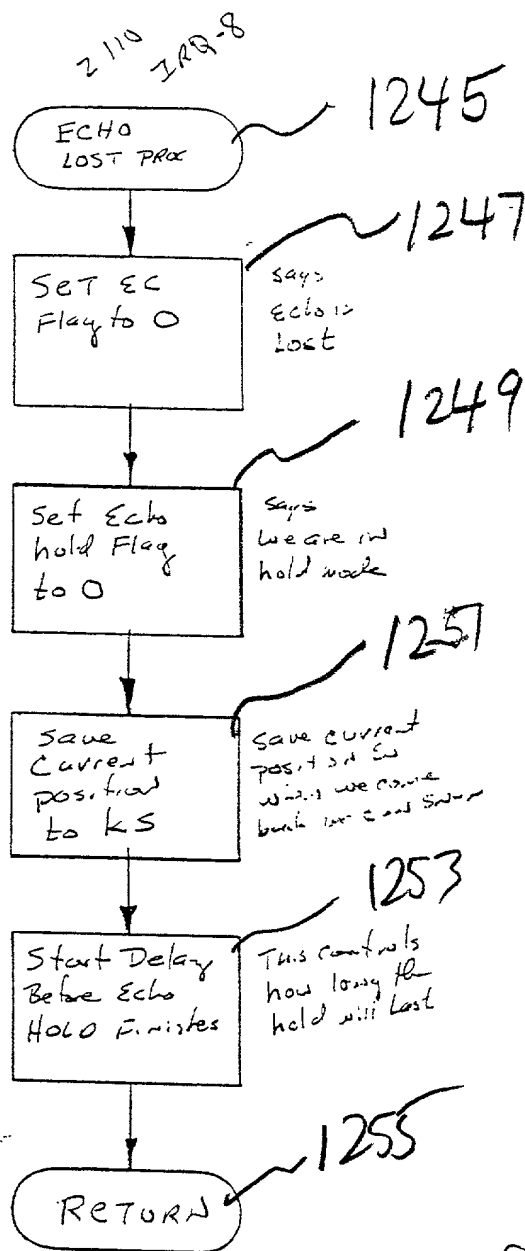


FIGURE 44 P

10929084.081601

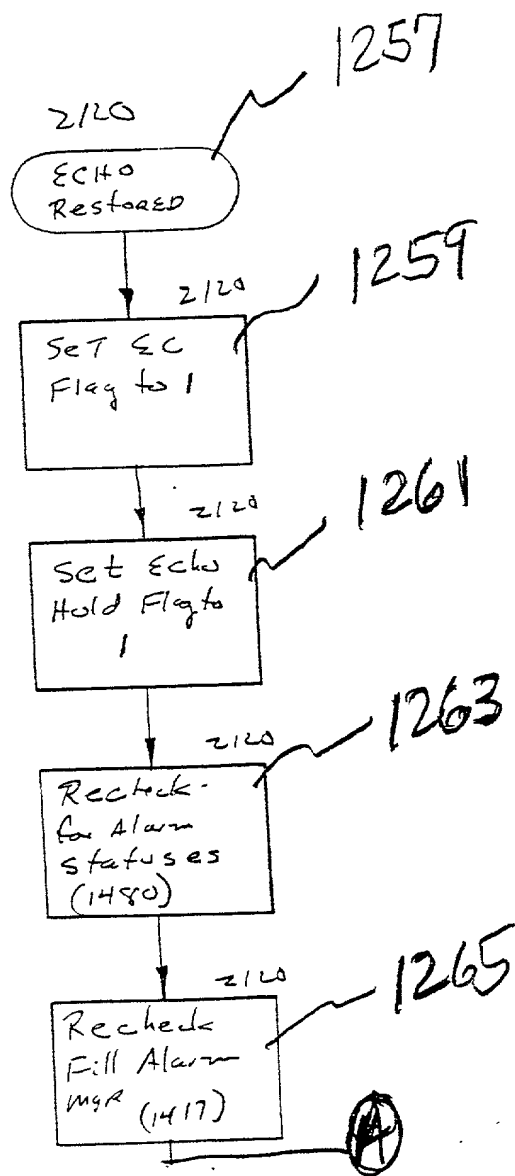


FIGURE 44Q

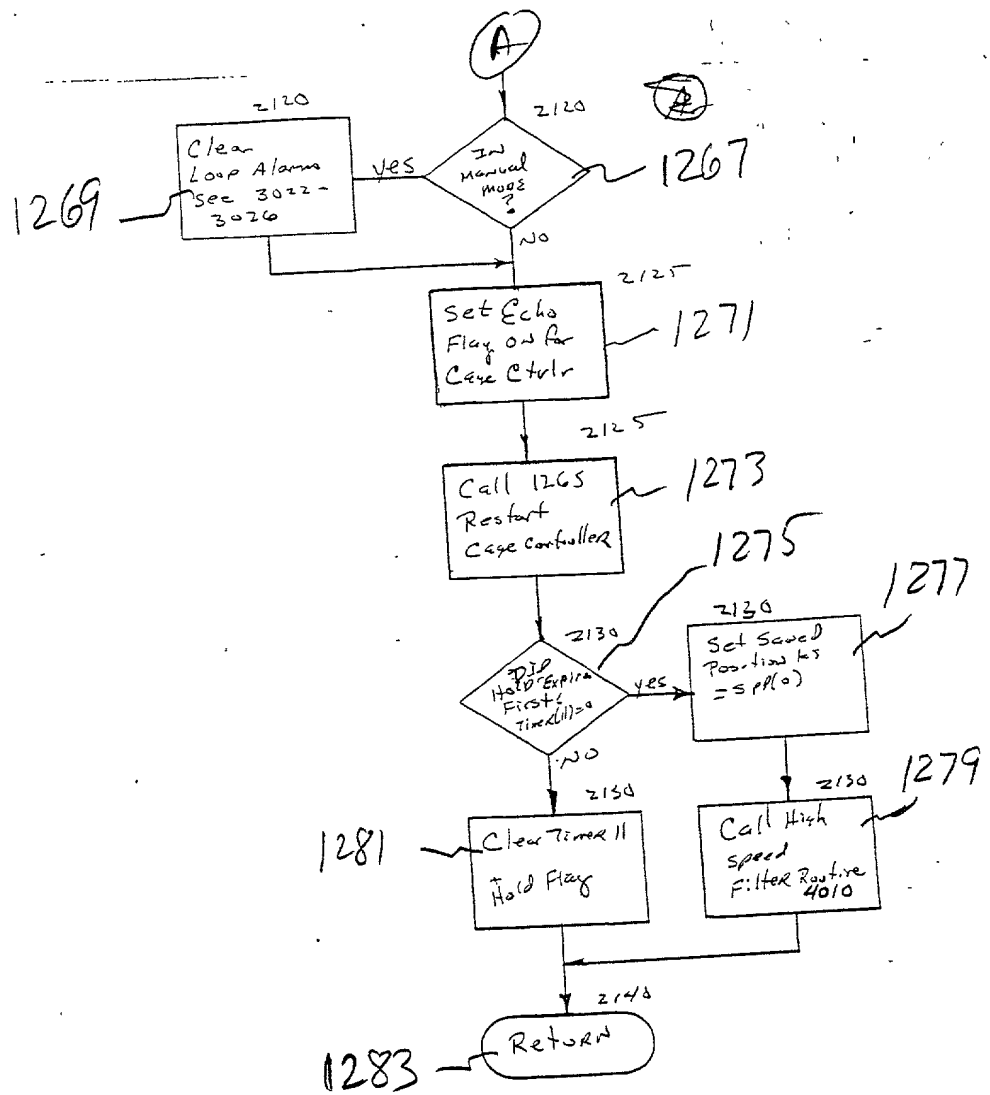


FIGURE 44R

09829084 081601

Called By
2120

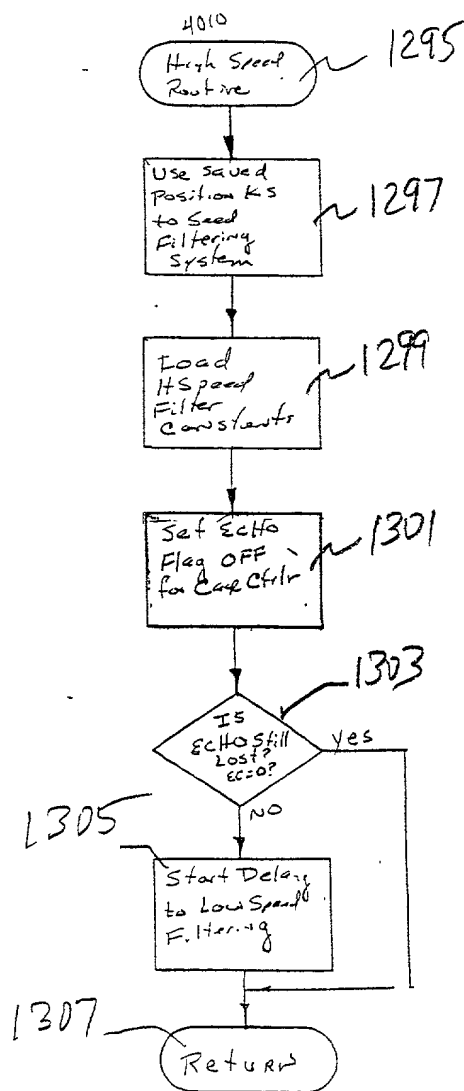


FIGURE 44 T

0902004-081501

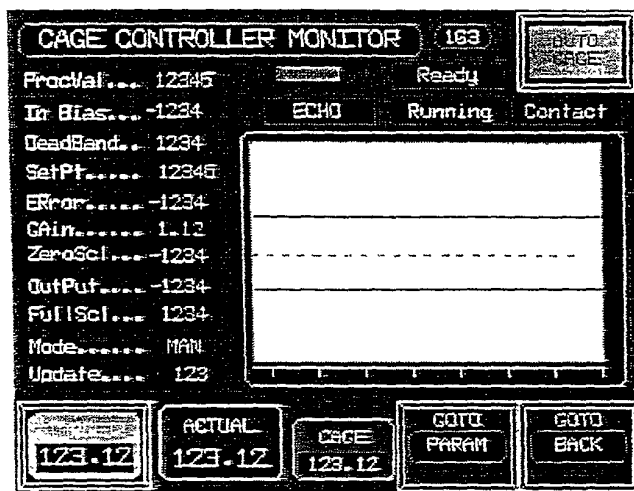


FIGURE 45

09825084 031501

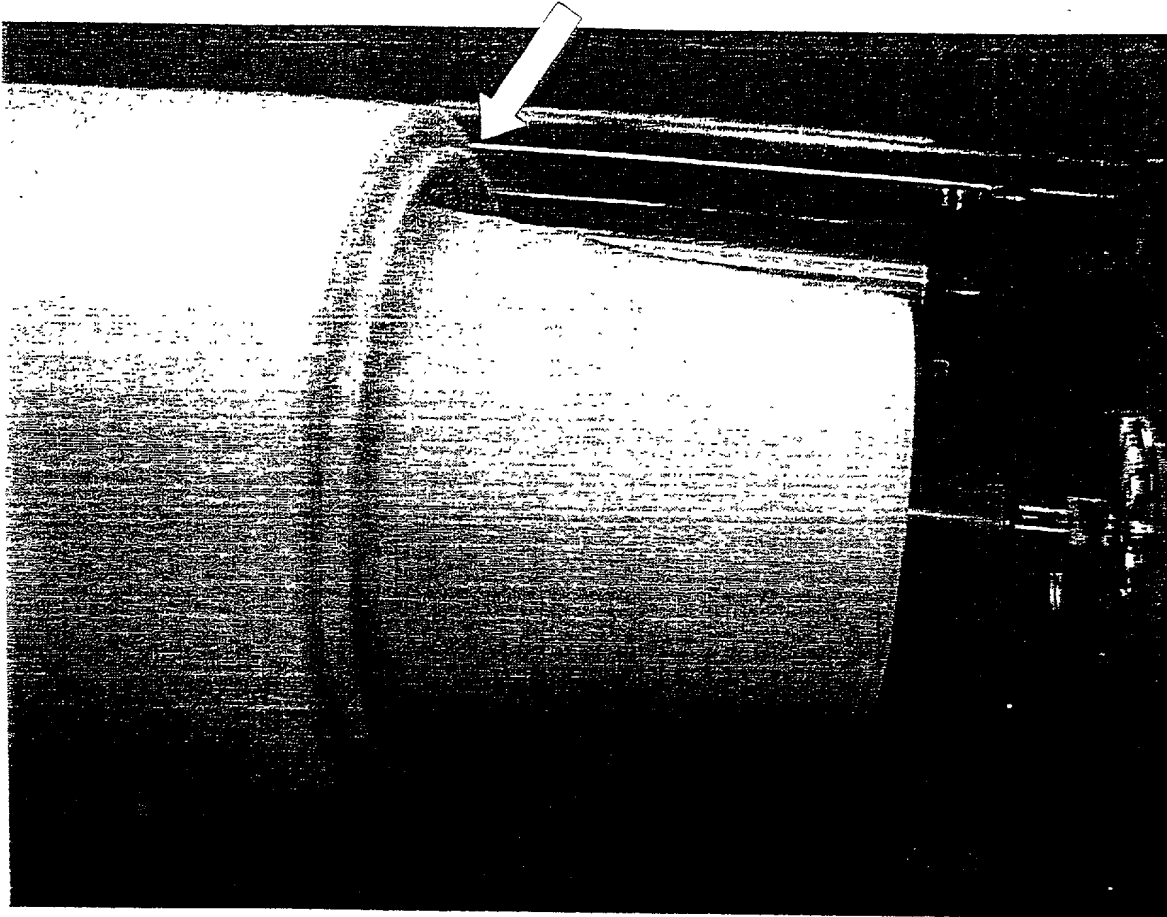


FIGURE 46

09829084 081601

CAGE CONTROLLER PARAMETERS		166	ACCEPT
40 MIN P 1.123	45 OVRLM 1.123	48-CCSIZE 123.12	READY
41 UPDHT 12.123	46 CONCT 1.123		
42 ERROR 1.123	47 MAX P 1.123		

CAGE CONTROLLER PARAMETERS: To
get help on a parameter, press
HELP and enter the number.
Press ACCEPT to load new
values.

HELP 1.123	GOTO BACK
---------------	--------------

FIGURE 47

09825084 081601
T09180" 48062860

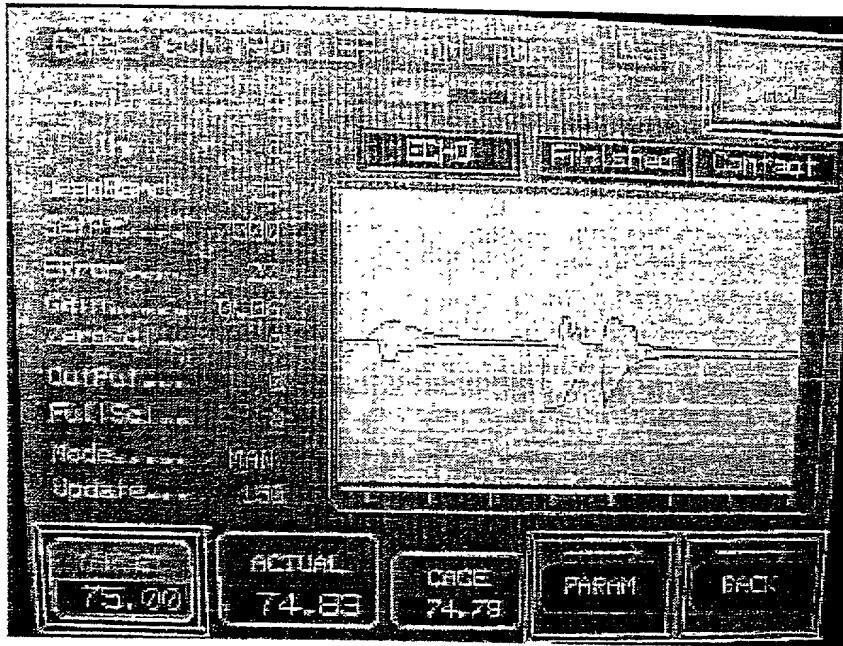


FIGURE 48

109823084.081601

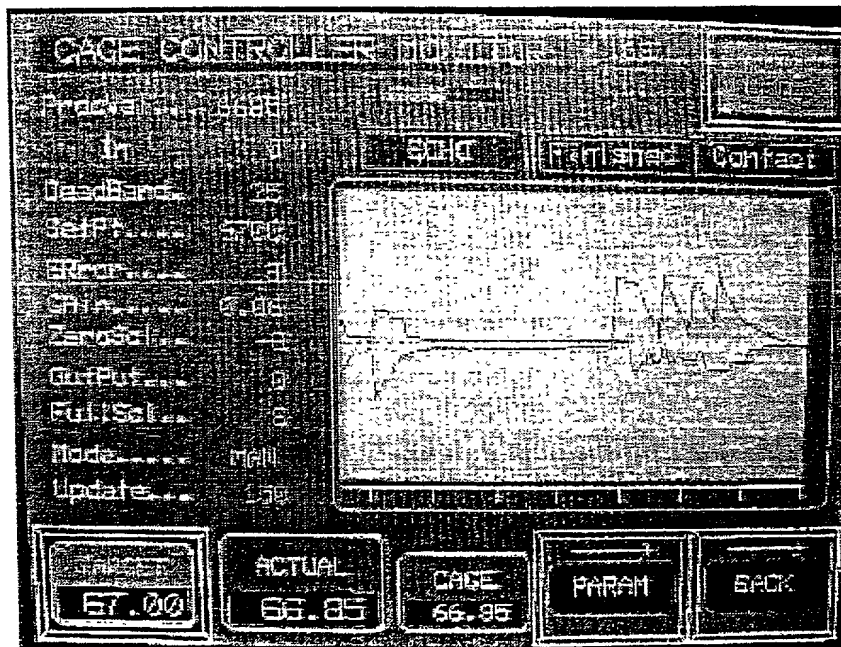


FIGURE 49

09829084-081001

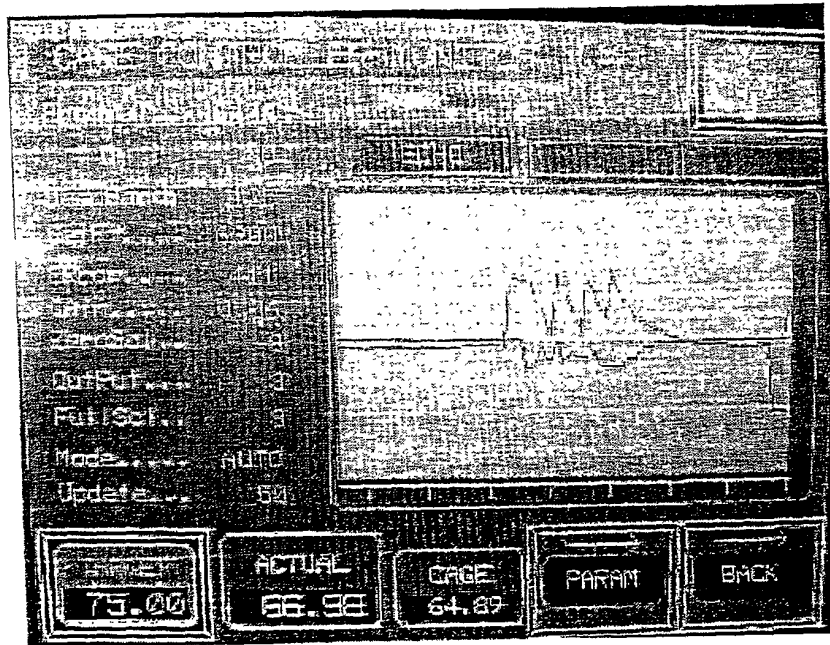


FIGURE 50

09829004 031601

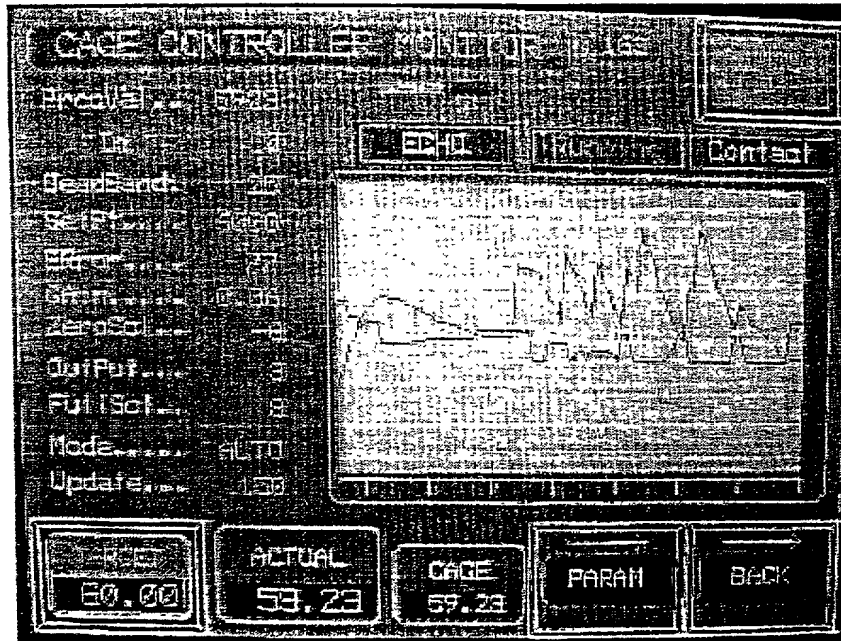


FIGURE 51

09829084 081501

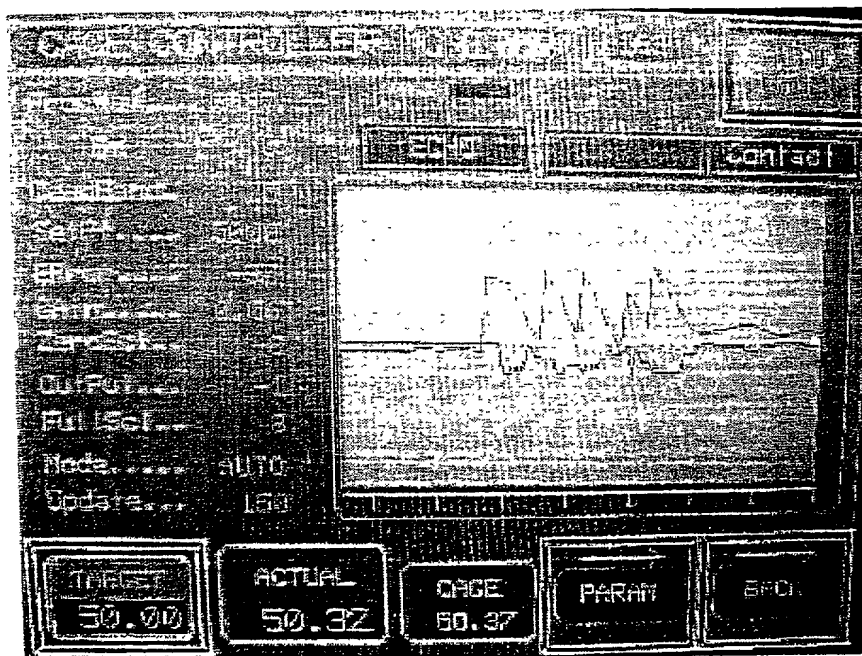


FIGURE 52

09062860 081501

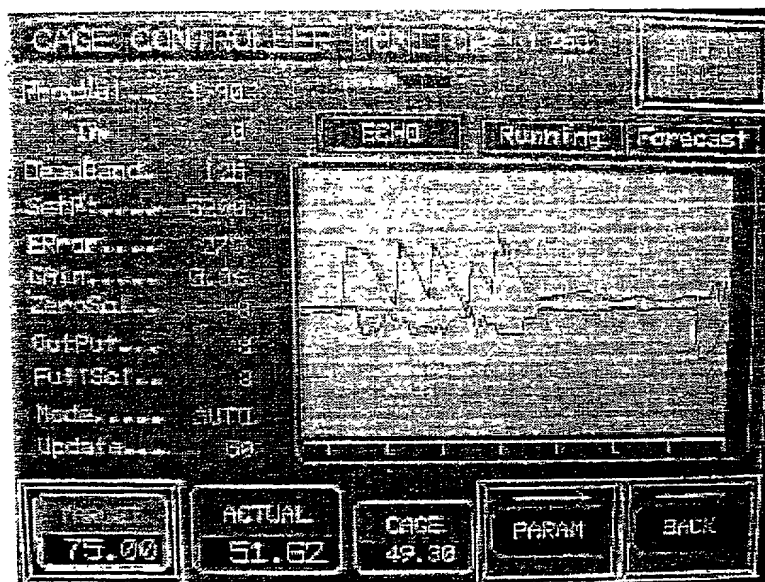


FIGURE 53